



ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
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Prepared for:

The Chemours Company FC, LLC
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
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Report Date: August 10, 2018 13:27

Project: CWK - PERIMETER MONITORING

Account #: 07032
Group Number: 1966072
PO Number: LBIO-67047
State of Sample Origin: NJ

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

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SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
PMP2018-D06-M01B Groundwater	07/16/2018 10:38	9705082
PMP2018-D06-M01B MS Groundwater	07/16/2018 10:38	9705083
PMP2018-D06-M01B MSD Groundwater	07/16/2018 10:38	9705084
PMP2018-D06-M01B Dupl Groundwater	07/16/2018 10:38	9705085
PMP2018-D06-M01B-Z Filtered Groundwater	07/16/2018 10:38	9705086
PMP2018-D06-M01B-Z MS Filtered Groundwater	07/16/2018 10:38	9705087
PMP2018-D06-M01B-Z MSD Filtered Groundwater	07/16/2018 10:38	9705088
PMP2018-D06-M01B-Z Dupl Filtered Groundwater	07/16/2018 10:38	9705089
PMP2018-F06-M02B Groundwater	07/16/2018 09:37	9705090
PMP2018-F06-M02B-Z Filtered Groundwater	07/16/2018 09:37	9705091
PMP2018-G05-M02B Groundwater	07/16/2018 13:55	9705092
PMP2018-G05-M02B-Z Filtered Groundwater	07/16/2018 13:55	9705093
PMP2018-G05-M02B-D Groundwater	07/16/2018 13:55	9705094
PMP2018-G05-M02B-DZ Filtered Groundwater	07/16/2018 13:55	9705095
PMP2018-C07-M01B Groundwater	07/16/2018 13:05	9705096
PMP2018-C07-M01B-Z Filtered Groundwater	07/16/2018 13:05	9705097
PMP2018-C08-M01B Groundwater	07/16/2018 12:06	9705098
PMP2018-C08-M01B-Z Filtered Groundwater	07/16/2018 12:06	9705099
PMP2018-EB-5 Blank Water	07/16/2018 08:00	9705100
PMP2018-TB-5 Blank Water	07/16/2018 08:00	9705101

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.



DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name: Eurofins Lancaster Laboratories Environmental

Client: The Chemours Company FC, LLC

Project: CWK - PERIMETER MONITORING

Sampling Date(s): 07/16/18

Laboratory Sample ID(s): 9705082-9705101

List DKQP Methods Used (e.g., 8260, 8270, et cetera)

SW-846 6010D Rev.4, July 2014; SW-846 6020B Rev.2, July 2014; SW-846 8260C; SW-846 8270D;
SW-846 9060A

		Yes or No
1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	Yes
1A	Were the method specified handling, preservation, and holding time requirements met?	Yes
1B	<u>EPH Method:</u> Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes
3	Were samples received at an appropriate temperature (</=6° C)?	Yes
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	No
5A	Were reporting limits* specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	Yes
5B	Were these reporting limits met?	No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	Yes

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."

*The Limit of Quantitation (LOQ) meets requirements for the Reporting Limit (RL) as defined in the NJDEP Data of Known Quality performance standards, unless otherwise noted.



08/10/2018



Lancaster Laboratories
Environmental

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Project Name: CWK - PERIMETER MONITORING
ELLE Group #: 1966072

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below.

Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set.

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:**SW-846 8260C, GC/MS Volatiles**

Sample #s: 9705082, 9705083, 9705084, 9705090, 9705092, 9705094, 9705096, 9705098, 9705100, 9705101

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

SW-846 8270D, GC/MS Semivolatiles

Sample #s: 9705082, 9705083, 9705084, 9705090, 9705092, 9705096, 9705098, 9705100

The NJ DKQP analyte list requirement was not met for Method 8270D. The client specified list is reported.

Project defined QC acceptance limits are not met. All QC is compliant with the laboratory statistically generated limits.

Sample #s: 9705094

The NJ DKQP analyte list requirement was not met for Method 8270D. The client specified list is reported.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was originally extracted within the method required holding time and the Laboratory Control Spike(s) is compliant, however the recovery for the sample surrogate(s) is outside the QC acceptance limits. All results are reported from the second trial.

Batch #: 18197WAY026 (Sample number(s): 9705096, 9705098)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window:
1-Naphthylamine, 2-Naphthylamine, o-Toluidine, 4-Chloroaniline, Hexachlorobutadiene, Benzidine, 3,3'-Dichlorobenzidine

Batch #: 18198WAC026 (Sample number(s): 9705082-9705084, 9705090, 9705092, 9705100 UNSPK: 9705082)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window:
1-Naphthylamine, 2-Naphthylamine, o-Toluidine, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene,
bis(2-Chloroisopropyl)ether, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window:
1-Naphthylamine, 2-Naphthylamine, o-Toluidine, 4-Chloroaniline, 1,3-Dichlorobenzene,
1,4-Dichlorobenzene, 1,2-Dichlorobenzene, bis(2-Chloroisopropyl)ether, 1,2,4-Trichlorobenzene,
Hexachlorobutadiene, Benzidine

Batch #: 18200WAZ026 (Sample number(s): 9705094)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window:
1-Naphthylamine, 2-Naphthylamine, o-Toluidine, 4-Chloroaniline, 1,3-Dichlorobenzene,
1,4-Dichlorobenzene, bis(2-Chloroisopropyl)ether, Hexachlorobutadiene, Dimethylphthalate, Benzidine

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: 1-Naphthylamine, Hexachlorocyclopentadiene, Benzidine

SW-846 6010D Rev.4, July 2014, Metals

Sample #s: 9705083, 9705084, 9705092, 9705096, 9705100

The NJ DKQP analyte list requirement was not met for metals. The client specified list is reported.

Sample #s: 9705082, 9705085

The NJ DKQP analyte list requirement was not met for metals. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: aluminum, lead.

Sample #s: 9705090, 9705094, 9705098

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: aluminum.
The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.

Batch #: 182001404504 (Sample number(s): 9705082-9705085, 9705092, 9705096, 9705100 UNSPK: 9705082 BKG: 9705082)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: Iron

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window: Iron, Sodium

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Iron

SW-846 6020B Rev.2, July 2014, Metals

Batch #: 181981404710A (Sample number(s): 9705082-9705085, 9705090, 9705092, 9705094, 9705096, 9705098, 9705100 UNSPK: 9705082 BKG: 9705082)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: Arsenic

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window: Arsenic

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Arsenic

SW-846 6020B Rev.2, July 2014, Metals Dissolved

Sample #s: 9705086, 9705087, 9705088, 9705089, 9705091, 9705093, 9705095, 9705097, 9705099

The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: lead.

SW-846 9060A, Wet Chemistry

Sample #s: 9705100

The reported result is the average of the following trials:

0.358 mg/l
0.367 mg/l
0.309 mg/l
0.313 mg/l

Sample #s: 9705084

The reported result is the average of the following trials:

19.236 mg/l
18.3 mg/l
19.547 mg/l
18.481 mg/l

Sample #s: 9705090

The reported result is the average of the following trials:

19.682 mg/l
19.062 mg/l
19.536 mg/l
19.027 mg/l

Sample #s: 9705083

The reported result is the average of the following trials:

20.083 mg/l
19.012 mg/l
19.889 mg/l
18.682 mg/l

Sample #s: 9705092

The reported result is the average of the following trials:

21.373 mg/l
20.498 mg/l
20.954 mg/l
20.968 mg/l

Sample #s: 9705094

The reported result is the average of the following trials:

21.756 mg/l
20.698 mg/l
21.438 mg/l
21.236 mg/l

Sample #s: 9705096

The reported result is the average of the following trials:

3.421 mg/l

3.12 mg/l

3.217 mg/l

3.067 mg/l

Sample #s: 9705098

The reported result is the average of the following trials:

6.842 mg/l

4.972 mg/l

5.311 mg/l

5.11 mg/l

Sample #s: 9705082

The reported result is the average of the following trials:

9.974 mg/l

9.638 mg/l

9.94 mg/l

9.515 mg/l

Sample Description: PMP2018-D06-M01B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705082
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	16	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l
14241	Acenaphthene	83-32-9	0.1 U	0.1
14241	Acenaphthylene	208-96-8	0.1 U	0.1
14241	Aniline	62-53-3	3 U	3
14241	Anthracene	120-12-7	0.1 U	0.1
14241	Benzidine	92-87-5	20 U	20
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5
				2

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-D06-M01B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705082
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	0.5 U	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	0.5 U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	1,2-Dichlorobenzene	95-50-1	1 J	0.5	2	1
14241	1,3-Dichlorobenzene	541-73-1	0.8 J	0.5	2	1
14241	1,4-Dichlorobenzene	106-46-7	4	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	Naphthalene	91-20-3	0.1 U	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	8 U	8	21	1
14241	2-Naphthylamine	91-59-8	7 U	7	21	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-D06-M01B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705082
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitrosodimethylamine	62-75-9	2 U	2	5	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	1,2,4-Trichlorobenzene	120-82-1	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The NJ DKQP analyte list requirement was not met for Method 8270D. The client specified list is reported.

The project QA/QC requirements were not met.

Project defined QC acceptance limits are not met. All QC is compliant with the laboratory statistically generated limits.

		SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l
01743	Aluminum	7429-90-5	0.153 U	0.153	0.600
	The NJ DKQP analyte list requirement was not met for metals. The client specified list is reported.				
	The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: aluminum, lead.				
07051	Chromium	7440-47-3	0.0053 U	0.0053	0.0300
01754	Iron	7439-89-6	119	0.0400	0.400
07061	Nickel	7440-02-0	0.0031 U	0.0031	0.0200
01767	Sodium	7440-23-5	183	0.326	2.00
		SW-846 6020B Rev.2, July 2014	mg/l	mg/l	mg/l
06024	Antimony	7440-36-0	0.00041 U	0.00041	0.0040
06025	Arsenic	7440-38-2	0.0256	0.00068	0.0040
06027	Beryllium	7440-41-7	0.000091 U	0.000091	0.0010
06028	Cadmium	7440-43-9	0.00015 U	0.00015	0.0020
06035	Lead	7439-92-1	0.0011 U	0.0011	0.0060
Wet Chemistry		SW-846 9060A	mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	9.8	0.50	1.0

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-D06-M01B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705082
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	Wet Chemistry	SW-846 9060A	mg/l	mg/l	mg/l	
The reported result is the average of the following trials:						
9.974 mg/l 9.638 mg/l 9.94 mg/l 9.515 mg/l						

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	PPL Volatiles + Add'l Cmpds	SW-846 8260C	1	L182052AA	07/24/2018 14:46	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L182052AA	07/24/2018 14:46	Daniel H Heller	1
14241	PPL SVs + Add'l Cmpds	SW-846 8270D	1	18198WAC026	07/18/2018 12:25	Brandon H Smith	1
11010	8270D BNA Extraction	SW-846 3510C	1	18198WAC026	07/17/2018 16:15	Osvaldo R Sanchez	1
01743	Aluminum	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:17	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:17	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:17	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:17	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:17	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 00:41	Bradley M Berlot	1
06025	Arsenic	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 00:41	Bradley M Berlot	1
06027	Beryllium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 22:41	Bradley M Berlot	1
06028	Cadmium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 22:41	Bradley M Berlot	1
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 22:41	Bradley M Berlot	1
14045	ICP-WW/TL, 3010A (tot) - U5	SW-846 3010A	1	182001404504	07/20/2018 05:14	James L Mertz	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404710	07/18/2018 05:33	James L Mertz	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	18201667605B	07/21/2018 00:30	Drew M Gerhart	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-D06-M01B MS Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705083
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Benzene	71-43-2	23	0.5	1	1
11997	Bromodichloromethane	75-27-4	19	0.5	1	1
11997	Bromoform	75-25-2	15	0.5	4	1
11997	Bromomethane	74-83-9	18	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	18	0.5	1	1
11997	Chlorobenzene	108-90-7	37	0.5	1	1
11997	Chloroethane	75-00-3	20	0.5	1	1
11997	Chloroform	67-66-3	21	0.5	1	1
11997	Chloromethane	74-87-3	20	0.5	1	1
11997	Dibromochloromethane	124-48-1	19	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	24	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	18	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	24	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	24	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	23	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	20	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	20	0.5	1	1
11997	Ethylbenzene	100-41-4	23	0.5	1	1
11997	Methylene Chloride	75-09-2	23	0.5	1	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	21	0.5	1	1
11997	Tetrachloroethene	127-18-4	22	0.5	1	1
11997	Toluene	108-88-3	23	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	18	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	22	0.5	1	1
11997	Trichloroethene	79-01-6	22	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	21	0.5	1	1
11997	Vinyl Chloride	75-01-4	20	0.5	1	1
11997	Xylene (Total)	1330-20-7	70	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l
14241	Acenaphthene	83-32-9	44	0.5
14241	Acenaphthylene	208-96-8	47	0.5
14241	Aniline	62-53-3	29	10
14241	Anthracene	120-12-7	44	0.5
14241	Benzidine	92-87-5	43 J	60
14241	Benzo(a)anthracene	56-55-3	46	0.5
14241	Benzo(a)pyrene	50-32-8	44	0.5
14241	Benzo(b)fluoranthene	205-99-2	43	0.5
14241	Benzo(g,h,i)perylene	191-24-2	38	0.5
14241	Benzo(k)fluoranthene	207-08-9	43	0.5
14241	4-Bromophenyl-phenylether	101-55-3	43	2

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-D06-M01B MS Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705083
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l
14241	Butylbenzylphthalate	85-68-7	47	2	5	1
14241	Di-n-butylphthalate	84-74-2	48	2	5	1
14241	4-Chloro-3-methylphenol	59-50-7	48	0.5	2	1
14241	4-Chloroaniline	106-47-8	36	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	43	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	41	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	34	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Choronaphthalene	91-58-7	41	0.4	1	1
14241	2-Chlorophenol	95-57-8	43	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	42	0.5	2	1
14241	Chrysene	218-01-9	44	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	42	0.1	0.5	1
14241	1,2-Dichlorobenzene	95-50-1	37	0.5	2	1
14241	1,3-Dichlorobenzene	541-73-1	35	0.5	2	1
14241	1,4-Dichlorobenzene	106-46-7	39	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	41	3	10	1
14241	2,4-Dichlorophenol	120-83-2	44	0.5	2	1
14241	Diethylphthalate	84-66-2	43	2	5	1
14241	2,4-Dimethylphenol	105-67-9	38	3	10	1
14241	Dimethylphthalate	131-11-3	45	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	46	8	21	1
14241	2,4-Dinitrophenol	51-28-5	70	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	44	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	47	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	49	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	46	5	11	1
14241	Fluoranthene	206-44-0	45	0.1	0.5	1
14241	Fluorene	86-73-7	44	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	43	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	35	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	57	5	11	1
14241	Hexachloroethane	67-72-1	34	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	40	0.1	0.5	1
14241	Isophorone	78-59-1	47	0.5	2	1
14241	Naphthalene	91-20-3	39	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	48	8	21	1
14241	2-Naphthylamine	91-59-8	44	7	21	1
14241	Nitrobenzene	98-95-3	45	0.5	2	1
14241	2-Nitrophenol	88-75-5	48	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-D06-M01B MS Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705083
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	41	10	30	1
14241	N-Nitrosodimethylamine	62-75-9	29	2	5	1
14241	N-Nitroso-di-n-propylamine	621-64-7	46	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	45	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	45	5	11	1
14241	Pentachlorophenol	87-86-5	51	1	5	1
14241	Phenanthrene	85-01-8	45	0.1	0.5	1
14241	Phenol	108-95-2	28	0.5	2	1
14241	Pyrene	129-00-0	43	0.1	0.5	1
14241	o-Toluidine	95-53-4	31	4	10	1
14241	1,2,4-Trichlorobenzene	120-82-1	37	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	48	0.5	2	1

The NJ DKQP analyte list requirement was not met for Method 8270D. The client specified list is reported.

The project QA/QC requirements were not met.
Project defined QC acceptance limits are not met. All QC is compliant with the laboratory statistically generated limits.

Metals		SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	1.96	0.153	0.600	1
	The NJ DKQP analyte list requirement was not met for metals. The client specified list is reported.					
07051	Chromium	7440-47-3	0.187	0.0053	0.0300	1
01754	Iron	7439-89-6	125	0.0400	0.400	1
07061	Nickel	7440-02-0	0.476	0.0031	0.0200	1
01767	Sodium	7440-23-5	188	0.326	2.00	1
		SW-846 6020B Rev.2, July 2014	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.0067	0.00041	0.0040	1
06025	Arsenic	7440-38-2	0.0397	0.00068	0.0040	1
06027	Beryllium	7440-41-7	0.0043	0.000091	0.0010	1
06028	Cadmium	7440-43-9	0.0052	0.00015	0.0020	1
06035	Lead	7439-92-1	0.0152	0.0011	0.0060	1
Wet Chemistry		SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	19.4	0.50	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-D06-M01B MS Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705083
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	SW-846 9060A		mg/l	mg/l	mg/l	
The reported result is the average of the following trials:						
20.083 mg/l 19.012 mg/l 19.889 mg/l 18.682 mg/l						

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	PPL Volatiles + Add'l Cmpds	SW-846 8260C	1	L182052AA	07/24/2018 15:08	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L182052AA	07/24/2018 15:08	Daniel H Heller	1
14241	PPL SVs + Add'l Cmpds	SW-846 8270D	1	18198WAC026	07/18/2018 12:53	Brandon H Smith	1
11010	8270D BNA Extraction	SW-846 3510C	1	18198WAC026	07/17/2018 16:15	Osvaldo R Sanchez	1
01743	Aluminum	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:24	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:24	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:24	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:24	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:24	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 00:49	Bradley M Berlot	1
06025	Arsenic	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 00:49	Bradley M Berlot	1
06027	Beryllium	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 00:49	Bradley M Berlot	1
06028	Cadmium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 22:49	Bradley M Berlot	1
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 22:49	Bradley M Berlot	1
14045	ICP-WW/TL, 3010A (tot) - U5	SW-846 3010A	1	182001404504	07/20/2018 05:14	James L Mertz	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404710	07/18/2018 05:33	James L Mertz	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	18201667605B	07/21/2018 01:01	Drew M Gerhart	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-D06-M01B MSD Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705084
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	Benzene	71-43-2	23	0.5	1	1
11997	Bromodichloromethane	75-27-4	19	0.5	1	1
11997	Bromoform	75-25-2	15	0.5	4	1
11997	Bromomethane	74-83-9	18	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	18	0.5	1	1
11997	Chlorobenzene	108-90-7	37	0.5	1	1
11997	Chloroethane	75-00-3	19	0.5	1	1
11997	Chloroform	67-66-3	21	0.5	1	1
11997	Chloromethane	74-87-3	21	0.5	1	1
11997	Dibromochloromethane	124-48-1	17	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	23	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	18	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	24	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	24	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	23	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	20	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	18	0.5	1	1
11997	Ethylbenzene	100-41-4	21	0.5	1	1
11997	Methylene Chloride	75-09-2	23	0.5	1	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	21	0.5	1	1
11997	Tetrachloroethene	127-18-4	20	0.5	1	1
11997	Toluene	108-88-3	21	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	18	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	20	0.5	1	1
11997	Trichloroethene	79-01-6	21	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	19	0.5	1	1
11997	Vinyl Chloride	75-01-4	20	0.5	1	1
11997	Xylene (Total)	1330-20-7	61	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l
14241	Acenaphthene	83-32-9	40	0.5
14241	Acenaphthylene	208-96-8	44	0.5
14241	Aniline	62-53-3	28	10
14241	Anthracene	120-12-7	43	0.5
14241	Benzidine	92-87-5	37 J	60
14241	Benzo(a)anthracene	56-55-3	45	0.5
14241	Benzo(a)pyrene	50-32-8	46	0.5
14241	Benzo(b)fluoranthene	205-99-2	43	0.5
14241	Benzo(g,h,i)perylene	191-24-2	37	0.5
14241	Benzo(k)fluoranthene	207-08-9	43	0.5
14241	4-Bromophenyl-phenylether	101-55-3	40	2

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-D06-M01B MSD Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705084
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
14241	Butylbenzylphthalate	85-68-7	49	2	5	1
14241	Di-n-butylphthalate	84-74-2	42	2	5	1
14241	4-Chloro-3-methylphenol	59-50-7	46	0.5	2	1
14241	4-Chloroaniline	106-47-8	31	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	40	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	38	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	32	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Choronaphthalene	91-58-7	36	0.4	1	1
14241	2-Chlorophenol	95-57-8	41	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	37	0.5	2	1
14241	Chrysene	218-01-9	43	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	42	0.1	0.5	1
14241	1,2-Dichlorobenzene	95-50-1	35	0.5	2	1
14241	1,3-Dichlorobenzene	541-73-1	32	0.5	2	1
14241	1,4-Dichlorobenzene	106-46-7	36	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	38	3	10	1
14241	2,4-Dichlorophenol	120-83-2	41	0.5	2	1
14241	Diethylphthalate	84-66-2	40	2	5	1
14241	2,4-Dimethylphenol	105-67-9	36	3	10	1
14241	Dimethylphthalate	131-11-3	40	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	45	8	21	1
14241	2,4-Dinitrophenol	51-28-5	73	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	43	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	44	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	44	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	45	5	11	1
14241	Fluoranthene	206-44-0	41	0.1	0.5	1
14241	Fluorene	86-73-7	40	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	41	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	32	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	48	5	11	1
14241	Hexachloroethane	67-72-1	31	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	40	0.1	0.5	1
14241	Isophorone	78-59-1	42	0.5	2	1
14241	Naphthalene	91-20-3	35	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	42	8	21	1
14241	2-Naphthylamine	91-59-8	37	7	21	1
14241	Nitrobenzene	98-95-3	40	0.5	2	1
14241	2-Nitrophenol	88-75-5	45	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-D06-M01B MSD Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705084
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	34	10	30	1
14241	N-Nitrosodimethylamine	62-75-9	27	2	5	1
14241	N-Nitroso-di-n-propylamine	621-64-7	42	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	44	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	43	5	11	1
14241	Pentachlorophenol	87-86-5	52	1	5	1
14241	Phenanthrene	85-01-8	44	0.1	0.5	1
14241	Phenol	108-95-2	27	0.5	2	1
14241	Pyrene	129-00-0	42	0.1	0.5	1
14241	o-Toluidine	95-53-4	29	4	10	1
14241	1,2,4-Trichlorobenzene	120-82-1	34	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	43	0.5	2	1

The NJ DKQP analyte list requirement was not met for Method 8270D. The client specified list is reported.

The project QA/QC requirements were not met.
Project defined QC acceptance limits are not met. All QC is compliant with the laboratory statistically generated limits.

Metals		SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	1.99	0.153	0.600	1
	The NJ DKQP analyte list requirement was not met for metals. The client specified list is reported.					
07051	Chromium	7440-47-3	0.193	0.0053	0.0300	1
01754	Iron	7439-89-6	40.4	0.0400	0.400	1
07061	Nickel	7440-02-0	0.489	0.0031	0.0200	1
01767	Sodium	7440-23-5	191	0.326	2.00	1
		SW-846 6020B Rev.2, July 2014	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.0065	0.00041	0.0040	1
06025	Arsenic	7440-38-2	0.0261	0.00068	0.0040	1
06027	Beryllium	7440-41-7	0.0044	0.000091	0.0010	1
06028	Cadmium	7440-43-9	0.0054	0.00015	0.0020	1
06035	Lead	7439-92-1	0.0145	0.0011	0.0060	1
Wet Chemistry		SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	18.9	0.50	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-D06-M01B MSD Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705084
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	Wet Chemistry	SW-846 9060A	mg/l	mg/l	mg/l	
The reported result is the average of the following trials:						
19.236 mg/l 18.3 mg/l 19.547 mg/l 18.481 mg/l						

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	PPL Volatiles + Add'l Cmpds	SW-846 8260C	1	L182052AA	07/24/2018 15:30	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L182052AA	07/24/2018 15:30	Daniel H Heller	1
14241	PPL SVs + Add'l Cmpds	SW-846 8270D	1	18198WAC026	07/18/2018 13:20	Brandon H Smith	1
11010	8270D BNA Extraction	SW-846 3510C	1	18198WAC026	07/17/2018 16:15	Osvaldo R Sanchez	1
01743	Aluminum	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:27	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:27	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:27	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:27	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:27	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 00:52	Bradley M Berlot	1
06025	Arsenic	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 00:52	Bradley M Berlot	1
06027	Beryllium	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 00:52	Bradley M Berlot	1
06028	Cadmium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 22:52	Bradley M Berlot	1
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 22:52	Bradley M Berlot	1
14045	ICP-WW/TL, 3010A (tot) - U5	SW-846 3010A	1	182001404504	07/20/2018 05:14	James L Mertz	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404710	07/18/2018 05:33	James L Mertz	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	18201667605B	07/21/2018 01:49	Drew M Gerhart	1

*=This limit was used in the evaluation of the final result



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Sample Description: PMP2018-D06-M01B Dupl Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705085
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	SW-846 6010D Rev.4, July 2014			mg/l	mg/l	
01743	Aluminum	7429-90-5	0.153 U	0.153	0.600	1
			The NJ DKQP analyte list requirement was not met for metals. The client specified list is reported.			
			The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: aluminum, lead.			
07051	Chromium	7440-47-3	0.0053 U	0.0053	0.0300	1
01754	Iron	7439-89-6	113	0.0400	0.400	1
07061	Nickel	7440-02-0	0.0031 U	0.0031	0.0200	1
01767	Sodium	7440-23-5	181	0.326	2.00	1
	SW-846 6020B Rev.2, July 2014			mg/l	mg/l	
06024	Antimony	7440-36-0	0.00041 U	0.00041	0.0040	1
06025	Arsenic	7440-38-2	0.0255	0.00068	0.0040	1
06027	Beryllium	7440-41-7	0.000091 U	0.000091	0.0010	1
06028	Cadmium	7440-43-9	0.00015 U	0.00015	0.0020	1
06035	Lead	7439-92-1	0.0011 U	0.0011	0.0060	1

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:22	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:22	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:22	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:22	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:22	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 00:46	Bradley M Berlot	1
06025	Arsenic	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 00:46	Bradley M Berlot	1
06027	Beryllium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 22:46	Bradley M Berlot	1
06028	Cadmium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 22:46	Bradley M Berlot	1
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 22:46	Bradley M Berlot	1

*=This limit was used in the evaluation of the final result

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Sample Description: PMP2018-D06-M01B Dupl Groundwater
PERIMETER MONITORING 2018**The Chemours Company FC, LLC**
ELLE Sample #: WW 9705085
ELLE Group #: 1966072
Matrix: Groundwater**Project Name:** CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 10:38

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14045	ICP-WW/TL, 3010A (tot) - U5	SW-846 3010A	1	182001404504	07/20/2018 05:14	James L Mertz	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404710	07/18/2018 05:33	James L Mertz	1

*=This limit was used in the evaluation of the final result

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Sample Description: PMP2018-D06-M01B-Z Filtered Groundwater
PERIMETER MONITORING 2018The Chemours Company FC, LLC
ELLE Sample #: WW 9705086
ELLE Group #: 1966072
Matrix: Groundwater**Project Name:** CWK - PERIMETER MONITORINGSubmittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals Dissolved	SW-846 6020B Rev.2, July 2014		mg/l	mg/l	mg/l	
06035	Lead	7439-92-1	0.0011 U	0.0011	0.0060	1

The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.
The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: lead.

Sample CommentsState of New Jersey Lab Certification No. PA011
This sample was field filtered for dissolved metals.**Laboratory Sample Analysis Record**

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181991404702A	07/20/2018 11:01	Patrick J Engle	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181991404702	07/18/2018 21:00	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Sample Description: PMP2018-D06-M01B-Z MS Filtered Groundwater
PERIMETER MONITORING 2018The Chemours Company FC, LLC
ELLE Sample #: WW 9705087
ELLE Group #: 1966072
Matrix: Groundwater**Project Name:** CWK - PERIMETER MONITORINGSubmittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals Dissolved	SW-846 6020B Rev.2, July 2014		mg/l	mg/l	mg/l	
06035	Lead	7439-92-1	0.0143	0.0011	0.0060	1

The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.
The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: lead.

Sample Comments

State of New Jersey Lab Certification No. PA011
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181991404702A	07/20/2018 11:06	Patrick J Engle	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181991404702	07/18/2018 21:00	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-D06-M01B-Z MSD Filtered Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705088
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals Dissolved	SW-846 6020B Rev.2, July 2014		mg/l	mg/l	mg/l	
06035	Lead	7439-92-1	0.0148	0.0011	0.0060	1

The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.
The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: lead.

Sample Comments

State of New Jersey Lab Certification No. PA011
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181991404702A	07/20/2018 11:08	Patrick J Engle	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181991404702	07/18/2018 21:00	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Sample Description: PMP2018-D06-M01B-Z Dupl Filtered Groundwater
PERIMETER MONITORING 2018The Chemours Company FC, LLC
ELLE Sample #: WW 9705089
ELLE Group #: 1966072
Matrix: Groundwater**Project Name:** CWK - PERIMETER MONITORINGSubmittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 10:38

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals Dissolved	SW-846 6020B Rev.2, July 2014		mg/l	mg/l	mg/l	
06035	Lead	7439-92-1	0.0011 U	0.0011	0.0060	1

The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.
The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: lead.

Sample CommentsState of New Jersey Lab Certification No. PA011
This sample was field filtered for dissolved metals.**Laboratory Sample Analysis Record**

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181991404702A	07/20/2018 11:05	Patrick J Engle	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181991404702	07/18/2018 21:00	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-F06-M02B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705090
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 09:37

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	9	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	1	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.6 J	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l		
14241	Acenaphthene	83-32-9	28	0.1	0.5	1
14241	Acenaphthylene	208-96-8	0.3 J	0.1	0.5	1
14241	Aniline	62-53-3	3 U	3	10	1
14241	Anthracene	120-12-7	0.3 J	0.1	0.5	1
14241	Benzidine	92-87-5	20 U	20	60	1
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-F06-M02B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705090
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 09:37

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	0.5 U	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	0.5 U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	1,2-Dichlorobenzene	95-50-1	2 J	0.5	2	1
14241	1,3-Dichlorobenzene	541-73-1	0.5 U	0.5	2	1
14241	1,4-Dichlorobenzene	106-46-7	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	4	0.1	0.5	1
14241	Fluorene	86-73-7	8	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	Naphthalene	91-20-3	0.1 J	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	8 U	8	21	1
14241	2-Naphthylamine	91-59-8	7 U	7	21	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-F06-M02B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705090
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 09:37

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitrosodimethylamine	62-75-9	2 U	2	5	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 J	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	2	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	1,2,4-Trichlorobenzene	120-82-1	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The NJ DKQP analyte list requirement was not met for Method 8270D. The client specified list is reported.

The project QA/QC requirements were not met.
Project defined QC acceptance limits are not met. All QC is compliant with the laboratory statistically generated limits.

		SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l
01743	Aluminum	7429-90-5	3.61	0.153	0.600
	The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: aluminum. The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.				
07051	Chromium	7440-47-3	0.0681	0.0053	0.0300
01754	Iron	7439-89-6	6.73	0.0400	0.400
07061	Nickel	7440-02-0	0.0044 J	0.0031	0.0200
01767	Sodium	7440-23-5	476	1.63	10.0
		SW-846 6020B Rev.2, July 2014	mg/l	mg/l	mg/l
06024	Antimony	7440-36-0	0.00060 J	0.00041	0.0040
06025	Arsenic	7440-38-2	0.0027 J	0.00068	0.0040
06027	Beryllium	7440-41-7	0.00073 J	0.000091	0.0010
06028	Cadmium	7440-43-9	0.00029 J	0.00015	0.0020
06035	Lead	7439-92-1	0.0048 J	0.0011	0.0060
Wet Chemistry		SW-846 9060A	mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	19.3	0.50	1.0

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-F06-M02B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705090
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 09:37

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	Wet Chemistry	SW-846 9060A	mg/l	mg/l	mg/l	
The reported result is the average of the following trials:						
19.682 mg/l 19.062 mg/l 19.536 mg/l 19.027 mg/l						

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	PPL Volatiles + Add'l Cmpds	SW-846 8260C	1	L182052AA	07/24/2018 15:51	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L182052AA	07/24/2018 15:51	Daniel H Heller	1
14241	PPL SVs + Add'l Cmpds	SW-846 8270D	1	18198WAC026	07/18/2018 16:36	Brandon H Smith	1
11010	8270D BNA Extraction	SW-846 3510C	1	18198WAC026	07/17/2018 16:15	Osvaldo R Sanchez	1
01743	Aluminum	SW-846 6010D Rev.4, July 2014	1	182001404503	07/22/2018 23:49	Xavier Arroyo	1
07051	Chromium	SW-846 6010D Rev.4, July 2014	1	182001404503	07/22/2018 23:49	Xavier Arroyo	1
01754	Iron	SW-846 6010D Rev.4, July 2014	1	182001404503	07/22/2018 23:49	Xavier Arroyo	1
07061	Nickel	SW-846 6010D Rev.4, July 2014	1	182001404503	07/22/2018 23:49	Xavier Arroyo	1
01767	Sodium	SW-846 6010D Rev.4, July 2014	1	182001404503	07/26/2018 23:54	Xavier Arroyo	5
06024	Antimony	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 09:48	Patrick J Engle	1
06025	Arsenic	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 09:48	Patrick J Engle	1
06027	Beryllium	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 01:19	Bradley M Berlot	1
06028	Cadmium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:20	Bradley M Berlot	1
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:20	Bradley M Berlot	1
14045	ICP-WW/TL, 3010A (tot) - U5	SW-846 3010A	1	182001404503	07/20/2018 05:32	James L Mertz	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404710	07/18/2018 05:33	James L Mertz	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	18201667605A	07/20/2018 18:46	Drew M Gerhart	1

*=This limit was used in the evaluation of the final result

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Sample Description: PMP2018-F06-M02B-Z Filtered Groundwater
PERIMETER MONITORING 2018The Chemours Company FC, LLC
ELLE Sample #: WW 9705091
ELLE Group #: 1966072
Matrix: Groundwater**Project Name:** CWK - PERIMETER MONITORINGSubmittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 09:37

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals Dissolved	SW-846 6020B Rev.2, July 2014		mg/l	mg/l	mg/l	
06035	Lead	7439-92-1	0.0026 J	0.0011	0.0060	1

The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.
The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: lead.

Sample CommentsState of New Jersey Lab Certification No. PA011
This sample was field filtered for dissolved metals.**Laboratory Sample Analysis Record**

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404705A	08/02/2018 23:56	Bradley M Berlot	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404705	07/17/2018 21:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-G05-M02B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705092
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 13:55

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Benzene	71-43-2	1,600	10	20	20
11997	Bromodichloromethane	75-27-4	10 U	10	20	20
11997	Bromoform	75-25-2	10 U	10	80	20
11997	Bromomethane	74-83-9	10 U	10	20	20
11997	Carbon Tetrachloride	56-23-5	10 U	10	20	20
11997	Chlorobenzene	108-90-7	21,000	100	200	200
11997	Chloroethane	75-00-3	10 U	10	20	20
11997	Chloroform	67-66-3	10 U	10	20	20
11997	Chloromethane	74-87-3	10 U	10	20	20
11997	Dibromochloromethane	124-48-1	10 U	10	20	20
11997	1,1-Dichloroethane	75-34-3	10 U	10	20	20
11997	1,2-Dichloroethane	107-06-2	10 U	10	20	20
11997	1,1-Dichloroethene	75-35-4	10 U	10	20	20
11997	trans-1,2-Dichloroethene	156-60-5	10 U	10	20	20
11997	1,2-Dichloropropane	78-87-5	10 U	10	20	20
11997	cis-1,3-Dichloropropene	10061-01-5	10 U	10	20	20
11997	trans-1,3-Dichloropropene	10061-02-6	10 U	10	20	20
11997	Ethylbenzene	100-41-4	11 J	10	20	20
11997	Methylene Chloride	75-09-2	10 U	10	20	20
11997	1,1,2,2-Tetrachloroethane	79-34-5	10 U	10	20	20
11997	Tetrachloroethene	127-18-4	12 J	10	20	20
11997	Toluene	108-88-3	46	10	20	20
11997	1,1,1-Trichloroethane	71-55-6	10 U	10	20	20
11997	1,1,2-Trichloroethane	79-00-5	10 U	10	20	20
11997	Trichloroethene	79-01-6	85	10	20	20
11997	Trichlorofluoromethane	75-69-4	10 U	10	20	20
11997	Vinyl Chloride	75-01-4	10 U	10	20	20
11997	Xylene (Total)	1330-20-7	120	10	20	20

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	3	0.1	0.5
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5
14241	Aniline	62-53-3	170	15	52
14241	Anthracene	120-12-7	0.1 U	0.1	0.5
14241	Benzidine	92-87-5	81	21	62
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-G05-M02B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705092
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 13:55

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	11	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	0.5 U	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	20	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	1,2-Dichlorobenzene	95-50-1	14,000	130	520	250
14241	1,3-Dichlorobenzene	541-73-1	99	0.5	2	1
14241	1,4-Dichlorobenzene	106-46-7	710	130	520	250
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	22	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	31	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	7	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	Naphthalene	91-20-3	27	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	21 J	8	22	1
14241	2-Naphthylamine	91-59-8	170	36	110	5
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-G05-M02B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705092
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 13:55

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	10 U	10	31	1
14241	N-Nitrosodimethylamine	62-75-9	2 U	2	5	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	1,200	180	770	250
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	170	21	52	5
14241	1,2,4-Trichlorobenzene	120-82-1	910	130	520	250
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The NJ DKQP analyte list requirement was not met for Method 8270D. The client specified list is reported.

The project QA/QC requirements were not met.
Project defined QC acceptance limits are not met. All QC is compliant with the laboratory statistically generated limits.

Metals		SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l
01743	Aluminum	7429-90-5	0.153 U	0.153	0.600
	The NJ DKQP analyte list requirement was not met for metals. The client specified list is reported.				
07051	Chromium	7440-47-3	0.0053 U	0.0053	0.0300
01754	Iron	7439-89-6	28.3	0.0400	0.400
07061	Nickel	7440-02-0	0.0031 U	0.0031	0.0200
01767	Sodium	7440-23-5	1,350	1.63	10.0
		SW-846 6020B Rev.2, July 2014	mg/l	mg/l	mg/l
06024	Antimony	7440-36-0	0.00049 J	0.00041	0.0040
06025	Arsenic	7440-38-2	0.0202	0.00068	0.0040
06027	Beryllium	7440-41-7	0.000091 U	0.000091	0.0010
06028	Cadmium	7440-43-9	0.00015 U	0.00015	0.0020
06035	Lead	7439-92-1	0.0016 J	0.0011	0.0060
Wet Chemistry		SW-846 9060A	mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	20.9	0.50	1.0

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-G05-M02B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705092
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 13:55

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	SW-846 9060A		mg/l	mg/l	mg/l	
The reported result is the average of the following trials:						
21.373 mg/l 20.498 mg/l 20.954 mg/l 20.968 mg/l						

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	PPL Volatiles + Add'l Cmpds	SW-846 8260C	1	L182052AA	07/24/2018 16:13	Daniel H Heller	20
11997	PPL Volatiles + Add'l Cmpds	SW-846 8260C	1	L182052AA	07/24/2018 16:35	Daniel H Heller	200
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L182052AA	07/24/2018 16:13	Daniel H Heller	20
01163	GC/MS VOA Water Prep	SW-846 5030C	2	L182052AA	07/24/2018 16:35	Daniel H Heller	200
14241	PPL SVs + Add'l Cmpds	SW-846 8270D	1	18198WAC026	07/18/2018 17:04	Brandon H Smith	1
14241	PPL SVs + Add'l Cmpds	SW-846 8270D	1	18198WAC026	07/19/2018 01:12	Ashley R Transue	5
14241	PPL SVs + Add'l Cmpds	SW-846 8270D	1	18198WAC026	07/19/2018 08:15	Ashley R Transue	250
11010	8270D BNA Extraction	SW-846 3510C	1	18198WAC026	07/17/2018 16:15	Osvaldo R Sanchez	1
01743	Aluminum	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:32	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:32	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:32	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:32	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/26/2018 20:55	Cindy M Gehman	5
06024	Antimony	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 09:50	Patrick J Engle	1
06025	Arsenic	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 09:50	Patrick J Engle	1
06027	Beryllium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:23	Bradley M Berlot	1
06028	Cadmium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:23	Bradley M Berlot	1
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:23	Bradley M Berlot	1
14045	ICP-WW/TL, 3010A (tot) - U5	SW-846 3010A	1	182001404504	07/20/2018 05:14	James L Mertz	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404710	07/18/2018 05:33	James L Mertz	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	18201667605A	07/20/2018 19:34	Drew M Gerhart	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-G05-M02B-Z Filtered Groundwater
PERIMETER MONITORING 2018**The Chemours Company FC, LLC**
ELLE Sample #: WW 9705093
ELLE Group #: 1966072
Matrix: Groundwater**Project Name:** CWK - PERIMETER MONITORINGSubmittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 13:55

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals Dissolved	SW-846 6020B Rev.2, July 2014		mg/l	mg/l	mg/l	
06035	Lead	7439-92-1	0.0011 U	0.0011	0.0060	1

The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.
The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: lead.

Sample Comments

State of New Jersey Lab Certification No. PA011
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404705A	07/23/2018 16:40	Bradley M Berlot	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404705	07/17/2018 21:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-G05-M02B-D Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705094
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 13:55

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	Benzene	71-43-2	1,600	10	20	20
11997	Bromodichloromethane	75-27-4	10 U	10	20	20
11997	Bromoform	75-25-2	10 U	10	80	20
11997	Bromomethane	74-83-9	10 U	10	20	20
11997	Carbon Tetrachloride	56-23-5	10 U	10	20	20
11997	Chlorobenzene	108-90-7	19,000	100	200	200
11997	Chloroethane	75-00-3	10 U	10	20	20
11997	Chloroform	67-66-3	10 U	10	20	20
11997	Chloromethane	74-87-3	10 U	10	20	20
11997	Dibromochloromethane	124-48-1	10 U	10	20	20
11997	1,1-Dichloroethane	75-34-3	10 U	10	20	20
11997	1,2-Dichloroethane	107-06-2	10 U	10	20	20
11997	1,1-Dichloroethene	75-35-4	10 U	10	20	20
11997	trans-1,2-Dichloroethene	156-60-5	10 U	10	20	20
11997	1,2-Dichloropropane	78-87-5	10 U	10	20	20
11997	cis-1,3-Dichloropropene	10061-01-5	10 U	10	20	20
11997	trans-1,3-Dichloropropene	10061-02-6	10 U	10	20	20
11997	Ethylbenzene	100-41-4	11 J	10	20	20
11997	Methylene Chloride	75-09-2	10 U	10	20	20
11997	1,1,2,2-Tetrachloroethane	79-34-5	10 U	10	20	20
11997	Tetrachloroethene	127-18-4	13 J	10	20	20
11997	Toluene	108-88-3	46	10	20	20
11997	1,1,1-Trichloroethane	71-55-6	10 U	10	20	20
11997	1,1,2-Trichloroethane	79-00-5	10 U	10	20	20
11997	Trichloroethene	79-01-6	85	10	20	20
11997	Trichlorofluoromethane	75-69-4	10 U	10	20	20
11997	Vinyl Chloride	75-01-4	10 U	10	20	20
11997	Xylene (Total)	1330-20-7	110	10	20	20

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	2	0.1	0.5
14241	Acenaphthylene	208-96-8	0.1 U	0.1	1
14241	Aniline	62-53-3	130	30	100
14241	Anthracene	120-12-7	0.2 J	0.1	0.5
14241	Benzidine	92-87-5	34 J	20	60
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-G05-M02B-D Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705094
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 13:55

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	SW-846 8270D		ug/l		ug/l	ug/l	
14241	Butylbenzylphthalate	85-68-7	2	U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2	U	2	5	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5	U	0.5	2	1
14241	4-Chloroaniline	106-47-8	10	J	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5	U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5	U	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	0.5	U	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	2-Chloronaphthalene	91-58-7	0.4	U	0.4	1	1
14241	2-Chlorophenol	95-57-8	21		0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5	U	0.5	2	1
14241	Chrysene	218-01-9	0.1	U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.5	1
14241	1,2-Dichlorobenzene	95-50-1	16,000		200	800	400
14241	1,3-Dichlorobenzene	541-73-1	100		0.5	2	1
14241	1,4-Dichlorobenzene	106-46-7	680		5	20	10
14241	3,3'-Dichlorobenzidine	91-94-1	3	U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5	U	0.5	2	1
14241	Diethylphthalate	84-66-2	2	U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3	U	3	10	1
14241	Dimethylphthalate	131-11-3	2	U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8	U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14	U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5	U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5	U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5	U	5	11	1
14241	Fluoranthene	206-44-0	0.1	U	0.1	0.5	1
14241	Fluorene	86-73-7	6		0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5	U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5	U	5	11	1
14241	Hexachloroethane	67-72-1	1	U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5	U	0.5	2	1
14241	Naphthalene	91-20-3	25		0.1	0.5	1
14241	1-Naphthylamine	134-32-7	8	U	8	21	1
14241	2-Naphthylamine	91-59-8	120		7	21	1
14241	Nitrobenzene	98-95-3	0.5	U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-G05-M02B-D Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705094
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 13:55

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitrosodimethylamine	62-75-9	2 U	2	5	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	1,400	280	1,200	400
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.2 J	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	130	40	100	10
14241	1,2,4-Trichlorobenzene	120-82-1	880	5	20	10
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The NJ DKQP analyte list requirement was not met for Method 8270D. The client specified list is reported.

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was originally extracted within the method required holding time and the Laboratory Control Spike(s) is compliant, however the recovery for the sample surrogate(s) is outside the QC acceptance limits. All results are reported from the second trial.

Metals		SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l
01743	Aluminum	7429-90-5	0.153 U	0.153	0.600
	The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: aluminum. The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.				
07051	Chromium	7440-47-3	0.0053 U	0.0053	0.0300
01754	Iron	7439-89-6	25.0	0.0400	0.400
07061	Nickel	7440-02-0	0.0031 U	0.0031	0.0200
01767	Sodium	7440-23-5	1,370	1.63	10.0
		SW-846 6020B Rev.2, July 2014	mg/l	mg/l	mg/l
06024	Antimony	7440-36-0	0.00065 J	0.00041	0.0040
06025	Arsenic	7440-38-2	0.0173	0.00068	0.0040
06027	Beryllium	7440-41-7	0.000091 U	0.000091	0.0010
06028	Cadmium	7440-43-9	0.00015 U	0.00015	0.0020
06035	Lead	7439-92-1	0.0014 J	0.0011	0.0060

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-G05-M02B-D Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705094
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 13:55

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	21.3	0.50	1.0	1
The reported result is the average of the following trials:						
21.756 mg/l 20.698 mg/l 21.438 mg/l 21.236 mg/l						

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	PPL Volatiles + Add'l Cmpds	SW-846 8260C	1	L182052AA	07/24/2018 17:01	Daniel H Heller	20
11997	PPL Volatiles + Add'l Cmpds	SW-846 8260C	1	L182052AA	07/24/2018 17:22	Daniel H Heller	200
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L182052AA	07/24/2018 17:01	Daniel H Heller	20
01163	GC/MS VOA Water Prep	SW-846 5030C	2	L182052AA	07/24/2018 17:22	Daniel H Heller	200
14241	PPL SVs + Add'l Cmpds	SW-846 8270D	1	18200WAZ026	07/25/2018 16:16	Brandon H Smith	1
14241	PPL SVs + Add'l Cmpds	SW-846 8270D	1	18200WAZ026	07/26/2018 03:37	Ashley R Transue	10
14241	PPL SVs + Add'l Cmpds	SW-846 8270D	1	18200WAZ026	07/27/2018 11:27	Brandon H Smith	400
11010	8270D BNA Extraction	SW-846 3510C	2	18200WAZ026	07/19/2018 19:45	Osvaldo R Sanchez	1
01743	Aluminum	SW-846 6010D Rev.4, July 2014	1	182001404503	07/22/2018 23:51	Xavier Arroyo	1
07051	Chromium	SW-846 6010D Rev.4, July 2014	1	182001404503	07/22/2018 23:51	Xavier Arroyo	1
01754	Iron	SW-846 6010D Rev.4, July 2014	1	182001404503	07/22/2018 23:51	Xavier Arroyo	1
07061	Nickel	SW-846 6010D Rev.4, July 2014	1	182001404503	07/22/2018 23:51	Xavier Arroyo	1
01767	Sodium	SW-846 6010D Rev.4, July 2014	1	182001404503	07/26/2018 23:57	Xavier Arroyo	5
06024	Antimony	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 09:51	Patrick J Engle	1
06025	Arsenic	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 09:51	Patrick J Engle	1
06027	Beryllium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:26	Bradley M Berlot	1
06028	Cadmium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:26	Bradley M Berlot	1
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:26	Bradley M Berlot	1
14045	ICP-WW/TL, 3010A (tot) - U5	SW-846 3010A	1	182001404503	07/20/2018 05:32	James L Mertz	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404710	07/18/2018 05:33	James L Mertz	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	18201667605A	07/20/2018 20:05	Drew M Gerhart	1

*=This limit was used in the evaluation of the final result

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Sample Description: PMP2018-G05-M02B-DZ Filtered Groundwater
PERIMETER MONITORING 2018The Chemours Company FC, LLC
ELLE Sample #: WW 9705095
ELLE Group #: 1966072
Matrix: Groundwater**Project Name:** CWK - PERIMETER MONITORINGSubmittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 13:55

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals Dissolved	SW-846 6020B Rev.2, July 2014		mg/l	mg/l	mg/l	
06035	Lead	7439-92-1	0.0011 U	0.0011	0.0060	1

The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.
The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: lead.

Sample CommentsState of New Jersey Lab Certification No. PA011
This sample was field filtered for dissolved metals.**Laboratory Sample Analysis Record**

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404705A	07/23/2018 16:43	Bradley M Berlot	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404705	07/17/2018 21:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-C07-M01B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705096
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 13:05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Benzene	71-43-2	5	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	150	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	5	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	1	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.6 J	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	17	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.6 J	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l
14242	Acenaphthene	83-32-9	0.1 U	0.1
14242	Acenaphthylene	208-96-8	0.1 U	0.1
14242	Aniline	62-53-3	3 U	3
14242	Anthracene	120-12-7	0.1 U	0.1
14242	Benzidine	92-87-5	20 U	20
14242	Benzo(a)anthracene	56-55-3	0.1 U	0.1
14242	Benzo(a)pyrene	50-32-8	0.1 U	0.1
14242	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1
14242	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1
14242	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1
14242	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-C07-M01B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705096
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 13:05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14242	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14242	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14242	4-Chloroaniline	106-47-8	4 U	4	10	1
14242	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14242	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14242	bis(2-Chloroisopropyl)ether	39638-32-9	0.5 U	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14242	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14242	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14242	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14242	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14242	1,2-Dichlorobenzene	95-50-1	29	0.5	2	1
14242	1,3-Dichlorobenzene	541-73-1	8	0.5	2	1
14242	1,4-Dichlorobenzene	106-46-7	17	0.5	2	1
14242	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14242	Diethylphthalate	84-66-2	2 U	2	5	1
14242	Dimethylphthalate	131-11-3	2 U	2	5	1
14242	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14242	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14242	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14242	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14242	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14242	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14242	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14242	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14242	Hexachloroethane	67-72-1	1 U	1	5	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14242	Isophorone	78-59-1	0.5 U	0.5	2	1
14242	Naphthalene	91-20-3	0.1 U	0.1	0.5	1
14242	1-Naphthylamine	134-32-7	8 U	8	21	1
14242	2-Naphthylamine	91-59-8	7 U	7	21	1
14242	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14242	N-Nitrosodimethylamine	62-75-9	2 U	2	5	1
14242	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14242	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14242	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14242	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-C07-M01B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705096
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 13:05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14242	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14242	o-Toluidine	95-53-4	4 U	4	10	1
14242	1,2,4-Trichlorobenzene	120-82-1	0.9 J	0.5	2	1

The NJ DKQP analyte list requirement was not met for Method 8270D. The client specified list is reported.

The project QA/QC requirements were not met.
Project defined QC acceptance limits are not met. All QC is compliant with the laboratory statistically generated limits.

		SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l
01743	Aluminum	7429-90-5	0.153 U	0.153	0.600
			The NJ DKQP analyte list requirement was not met for metals. The client specified list is reported.		
07051	Chromium	7440-47-3	0.0053 U	0.0053	0.0300
01754	Iron	7439-89-6	42.5	0.0400	0.400
07061	Nickel	7440-02-0	0.0031 U	0.0031	0.0200
01767	Sodium	7440-23-5	358	0.326	2.00

		SW-846 6020B Rev.2, July 2014	mg/l	mg/l	mg/l
06024	Antimony	7440-36-0	0.00041 UK4	0.00041	0.0040
06025	Arsenic	7440-38-2	0.0156	0.00068	0.0040
06027	Beryllium	7440-41-7	0.000091 U	0.000091	0.0010
06028	Cadmium	7440-43-9	0.00015 U	0.00015	0.0020
06035	Lead	7439-92-1	0.0011 U	0.0011	0.0060

		Wet Chemistry SW-846 9060A	mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	3.2	0.50	1.0
The reported result is the average of the following trials:					
3.421 mg/l					
3.12 mg/l					
3.217 mg/l					
3.067 mg/l					

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	PPL Volatiles + Add'l Cmpds	SW-846 8260C	1	L182052AA	07/24/2018 17:44	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L182052AA	07/24/2018 17:44	Daniel H Heller	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-C07-M01B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705096
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 13:05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14242	PPL BNs + Add'l Cmpds	SW-846 8270D	1	18197WAY026	07/19/2018 06:41	Ashley R Transue	1
00813	BNA Water Extraction	SW-846 3510C	1	18197WAY026	07/17/2018 08:00	Kayla A Yuditsky	1
01743	Aluminum	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:35	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:35	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:35	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:35	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:35	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 01:33	Bradley M Berlot	1
06025	Arsenic	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 09:53	Patrick J Engle	1
06027	Beryllium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:29	Bradley M Berlot	1
06028	Cadmium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:29	Bradley M Berlot	1
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:29	Bradley M Berlot	1
14045	ICP-WW/TL, 3010A (tot) - U5	SW-846 3010A	1	182001404504	07/20/2018 05:14	James L Mertz	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404710	07/18/2018 05:33	James L Mertz	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	18201667605A	07/20/2018 20:51	Drew M Gerhart	1

*=This limit was used in the evaluation of the final result

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Sample Description: PMP2018-C07-M01B-Z Filtered Groundwater
PERIMETER MONITORING 2018The Chemours Company FC, LLC
ELLE Sample #: WW 9705097
ELLE Group #: 1966072
Matrix: Groundwater**Project Name:** CWK - PERIMETER MONITORINGSubmittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 13:05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals Dissolved	SW-846 6020B Rev.2, July 2014		mg/l	mg/l	mg/l	
06035	Lead	7439-92-1	0.0011 U	0.0011	0.0060	1

The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.
The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: lead.

Sample CommentsState of New Jersey Lab Certification No. PA011
This sample was field filtered for dissolved metals.**Laboratory Sample Analysis Record**

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404705A	07/23/2018 16:46	Bradley M Berlot	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404705	07/17/2018 21:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-C08-M01B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705098
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 12:06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	4	0.5	1	1
11997	Chlorobenzene	108-90-7	8	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	17	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	1	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 J	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.8 J	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	3	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14242	Acenaphthene	83-32-9	0.2 J	0.1	0.5	1
14242	Acenaphthylene	208-96-8	0.1 U	0.1	0.5	1
14242	Aniline	62-53-3	3 U	3	10	1
14242	Anthracene	120-12-7	0.1 U	0.1	0.5	1
14242	Benzidine	92-87-5	20 U	20	60	1
14242	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14242	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14242	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14242	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14242	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14242	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-C08-M01B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705098
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 12:06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14242	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14242	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14242	4-Chloroaniline	106-47-8	4 U	4	10	1
14242	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14242	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14242	bis(2-Chloroisopropyl)ether	39638-32-9	0.5 U	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14242	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14242	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14242	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14242	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14242	1,2-Dichlorobenzene	95-50-1	10	0.5	2	1
14242	1,3-Dichlorobenzene	541-73-1	96	0.5	2	1
14242	1,4-Dichlorobenzene	106-46-7	46	0.5	2	1
14242	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14242	Diethylphthalate	84-66-2	2 U	2	5	1
14242	Dimethylphthalate	131-11-3	2 U	2	5	1
14242	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14242	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14242	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14242	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14242	Fluorene	86-73-7	0.2 J	0.1	0.5	1
14242	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14242	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14242	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14242	Hexachloroethane	67-72-1	1 U	1	5	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14242	Isophorone	78-59-1	0.5 U	0.5	2	1
14242	Naphthalene	91-20-3	0.4 J	0.1	0.5	1
14242	1-Naphthylamine	134-32-7	8 U	8	21	1
14242	2-Naphthylamine	91-59-8	7 U	7	21	1
14242	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14242	N-Nitrosodimethylamine	62-75-9	2 U	2	5	1
14242	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14242	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14242	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14242	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-C08-M01B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705098
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 12:06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14242	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14242	o-Toluidine	95-53-4	4 U	4	10	1
14242	1,2,4-Trichlorobenzene	120-82-1	320	3	10	5
The NJ DKQP analyte list requirement was not met for Method 8270D. The client specified list is reported.						
The project QA/QC requirements were not met. Project defined QC acceptance limits are not met. All QC is compliant with the laboratory statistically generated limits.						
Metals		SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	8.89	0.153	0.600	1
The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: aluminum. The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.						
07051	Chromium	7440-47-3	0.0162 J	0.0053	0.0300	1
01754	Iron	7439-89-6	127	0.0400	0.400	1
07061	Nickel	7440-02-0	0.0082 J	0.0031	0.0200	1
01767	Sodium	7440-23-5	336	0.326	2.00	1
		SW-846 6020B Rev.2, July 2014	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00089 J	0.00041	0.0040	1
06025	Arsenic	7440-38-2	0.0862	0.00068	0.0040	1
06027	Beryllium	7440-41-7	0.00046 J	0.000091	0.0010	1
06028	Cadmium	7440-43-9	0.00015 U	0.00015	0.0020	1
06035	Lead	7439-92-1	0.0085	0.0011	0.0060	1
Wet Chemistry		SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	5.6	0.50	1.0	1
The reported result is the average of the following trials: 6.842 mg/l 4.972 mg/l 5.311 mg/l 5.11 mg/l						

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
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*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-C08-M01B Groundwater
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705098
ELLE Group #: 1966072
Matrix: Groundwater

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 12:06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	PPL Volatiles + Add'l Cmpds	SW-846 8260C	1	L182052AA	07/24/2018 18:06	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L182052AA	07/24/2018 18:06	Daniel H Heller	1
14242	PPL BNs + Add'l Cmpds	SW-846 8270D	1	18197WAY026	07/19/2018 07:08	Ashley R Transue	1
14242	PPL BNs + Add'l Cmpds	SW-846 8270D	1	18197WAY026	07/19/2018 22:54	Ashley R Transue	5
00813	BNA Water Extraction	SW-846 3510C	1	18197WAY026	07/17/2018 08:00	Kayla A Yuditsky	1
01743	Aluminum	SW-846 6010D Rev.4, July 2014	1	182001404503	07/22/2018 23:59	Xavier Arroyo	1
07051	Chromium	SW-846 6010D Rev.4, July 2014	1	182001404503	07/22/2018 23:59	Xavier Arroyo	1
01754	Iron	SW-846 6010D Rev.4, July 2014	1	182001404503	07/22/2018 23:59	Xavier Arroyo	1
07061	Nickel	SW-846 6010D Rev.4, July 2014	1	182001404503	07/22/2018 23:59	Xavier Arroyo	1
01767	Sodium	SW-846 6010D Rev.4, July 2014	1	182001404503	07/22/2018 23:59	Xavier Arroyo	1
06024	Antimony	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 09:55	Patrick J Engle	1
06025	Arsenic	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 09:55	Patrick J Engle	1
06027	Beryllium	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 01:35	Bradley M Berlot	1
06028	Cadmium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:37	Bradley M Berlot	1
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:37	Bradley M Berlot	1
14045	ICP-WW/TL, 3010A (tot) - U5	SW-846 3010A	1	182001404503	07/20/2018 05:32	James L Mertz	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404710	07/18/2018 05:33	James L Mertz	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	18201667605A	07/20/2018 21:22	Drew M Gerhart	1

*=This limit was used in the evaluation of the final result

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Sample Description: PMP2018-C08-M01B-Z Filtered Groundwater
PERIMETER MONITORING 2018The Chemours Company FC, LLC
ELLE Sample #: WW 9705099
ELLE Group #: 1966072
Matrix: Groundwater**Project Name:** CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 12:06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals Dissolved	SW-846 6020B Rev.2, July 2014		mg/l	mg/l	mg/l	
06035	Lead	7439-92-1	0.0014 J	0.0011	0.0060	1

The NJ DKQP analyte list requirement was not met for Metals. The client specified list is reported.
The NJ DKQP required reporting limit could not be attained using the laboratory LOQ. The following were evaluated using the MDL: lead.

Sample Comments

State of New Jersey Lab Certification No. PA011
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404705A	08/03/2018 00:12	Bradley M Berlot	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404705	07/17/2018 21:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-EB-5 Blank Water
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705100
ELLE Group #: 1966072
Matrix: Blank Water

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260C		ug/l	ug/l	ug/l	
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	0.5 U	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l
14241	Acenaphthene	83-32-9	0.1 U	0.1
14241	Acenaphthylene	208-96-8	0.1 U	0.1
14241	Aniline	62-53-3	3 U	10
14241	Anthracene	120-12-7	0.1 U	0.1
14241	Benzidine	92-87-5	20 U	20
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5
				2

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-EB-5 Blank Water
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705100
ELLE Group #: 1966072
Matrix: Blank Water

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	bis(2-Chloroisopropyl)ether	39638-32-9	0.5 U	0.5	2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	0.5 U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	1,2-Dichlorobenzene	95-50-1	4	0.5	2	1
14241	1,3-Dichlorobenzene	541-73-1	0.5 U	0.5	2	1
14241	1,4-Dichlorobenzene	106-46-7	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	Naphthalene	91-20-3	0.1 U	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	8 U	8	21	1
14241	2-Naphthylamine	91-59-8	7 U	7	21	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-EB-5 Blank Water
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705100
ELLE Group #: 1966072
Matrix: Blank Water

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l	
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitrosodimethylamine	62-75-9	2 U	2	5	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	1,2,4-Trichlorobenzene	120-82-1	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The NJ DKQP analyte list requirement was not met for Method 8270D. The client specified list is reported.

The project QA/QC requirements were not met.
Project defined QC acceptance limits are not met. All QC is compliant with the laboratory statistically generated limits.

Metals		SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l
01743	Aluminum	7429-90-5	0.153 U	0.153	0.600
	The NJ DKQP analyte list requirement was not met for metals. The client specified list is reported.				
07051	Chromium	7440-47-3	0.0053 U	0.0053	0.0300
01754	Iron	7439-89-6	0.0400 U	0.0400	0.400
07061	Nickel	7440-02-0	0.0031 U	0.0031	0.0200
01767	Sodium	7440-23-5	0.640 J	0.326	2.00
		SW-846 6020B Rev.2, July 2014	mg/l	mg/l	mg/l
06024	Antimony	7440-36-0	0.00041 UK4	0.00041	0.0040
06025	Arsenic	7440-38-2	0.00068 UK4	0.00068	0.0040
06027	Beryllium	7440-41-7	0.000091 U	0.000091	0.0010
06028	Cadmium	7440-43-9	0.00015 U	0.00015	0.0020
06035	Lead	7439-92-1	0.0011 U	0.0011	0.0060
Wet Chemistry		SW-846 9060A	mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	0.50 U	0.50	1.0

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-EB-5 Blank Water
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705100
ELLE Group #: 1966072
Matrix: Blank Water

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50
Collection Date/Time: 07/16/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	Wet Chemistry	SW-846 9060A	mg/l	mg/l	mg/l	
The reported result is the average of the following trials:						
0.358 mg/l 0.367 mg/l 0.309 mg/l 0.313 mg/l						

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	PPL Volatiles + Add'l Cmpds	SW-846 8260C	1	L182052AA	07/24/2018 18:28	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L182052AA	07/24/2018 18:28	Daniel H Heller	1
14241	PPL SVs + Add'l Cmpds	SW-846 8270D	1	18198WAC026	07/18/2018 17:59	Brandon H Smith	1
11010	8270D BNA Extraction	SW-846 3510C	1	18198WAC026	07/17/2018 16:15	Osvaldo R Sanchez	1
01743	Aluminum	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:43	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:43	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:43	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:43	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010D Rev.4, July 2014	1	182001404504	07/22/2018 16:43	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 01:38	Bradley M Berlot	1
06025	Arsenic	SW-846 6020B Rev.2, July 2014	1	181981404710A	08/04/2018 01:38	Bradley M Berlot	1
06027	Beryllium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:40	Bradley M Berlot	1
06028	Cadmium	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:40	Bradley M Berlot	1
06035	Lead	SW-846 6020B Rev.2, July 2014	1	181981404710A	07/23/2018 23:40	Bradley M Berlot	1
14045	ICP-WW/TL, 3010A (tot) - U5	SW-846 3010A	1	182001404504	07/20/2018 05:14	James L Mertz	1
14047	ICPMS - Water, 3020A - U5	SW-846 3020A	1	181981404710	07/18/2018 05:33	James L Mertz	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	18201667605A	07/20/2018 21:53	Drew M Gerhart	1

*=This limit was used in the evaluation of the final result

Sample Description: PMP2018-TB-5 Blank Water
PERIMETER MONITORING 2018

The Chemours Company FC, LLC
ELLE Sample #: WW 9705101
ELLE Group #: 1966072
Matrix: Blank Water

Project Name: CWK - PERIMETER MONITORING

Submittal Date/Time: 07/16/2018 17:50

Collection Date/Time: 07/16/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC/MS Volatiles	SW-846 8260C	ug/l	ug/l	ug/l	
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	0.5 U	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	PPL Volatiles + Add'l Cmpds	SW-846 8260C	1	L182052AA	07/24/2018 18:50	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L182052AA	07/24/2018 18:50	Daniel H Heller	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result ug/l	MDL** ug/l	LOQ ug/l
Batch number: L182052AA			
Benzene	0.5 U	0.5	1
Bromodichloromethane	0.5 U	0.5	1
Bromoform	0.5 U	0.5	4
Bromomethane	0.5 U	0.5	1
Carbon Tetrachloride	0.5 U	0.5	1
Chlorobenzene	0.5 U	0.5	1
Chloroethane	0.5 U	0.5	1
Chloroform	0.5 U	0.5	1
Chloromethane	0.5 U	0.5	1
Dibromochloromethane	0.5 U	0.5	1
1,1-Dichloroethane	0.5 U	0.5	1
1,2-Dichloroethane	0.5 U	0.5	1
1,1-Dichloroethene	0.5 U	0.5	1
trans-1,2-Dichloroethene	0.5 U	0.5	1
1,2-Dichloropropane	0.5 U	0.5	1
cis-1,3-Dichloropropene	0.5 U	0.5	1
trans-1,3-Dichloropropene	0.5 U	0.5	1
Ethylbenzene	0.5 U	0.5	1
Methylene Chloride	0.5 U	0.5	1
1,1,2,2-Tetrachloroethane	0.5 U	0.5	1
Tetrachloroethene	0.5 U	0.5	1
Toluene	0.5 U	0.5	1
1,1,1-Trichloroethane	0.5 U	0.5	1
1,1,2-Trichloroethane	0.5 U	0.5	1
Trichloroethene	0.5 U	0.5	1
Trichlorofluoromethane	0.5 U	0.5	1
Vinyl Chloride	0.5 U	0.5	1
Xylene (Total)	0.5 U	0.5	1
Batch number: 18197WAY026			
Sample number(s): 9705096,9705098			
Acenaphthene	0.1 U	0.1	0.5
Acenaphthylene	0.1 U	0.1	0.5
Aniline	3 U	3	10
Anthracene	0.1 U	0.1	0.5
Benzidine	20 U	20	60
Benzo(a)anthracene	0.1 U	0.1	0.5
Benzo(a)pyrene	0.1 U	0.1	0.5
Benzo(b)fluoranthene	0.1 U	0.1	0.5
Benzo(g,h,i)perylene	0.1 U	0.1	0.5

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

Method Blank (continued)

Analysis Name	Result ug/l	MDL** ug/l	LOQ ug/l
Benzo(k)fluoranthene	0.1 U	0.1	0.5
4-Bromophenyl-phenylether	0.5 U	0.5	2
Butylbenzylphthalate	2 U	2	5
Di-n-butylphthalate	2 U	2	5
4-Chloroaniline	4 U	4	10
bis(2-Chloroethoxy)methane	0.5 U	0.5	2
bis(2-Chloroethyl)ether	0.5 U	0.5	2
bis(2-Chloroisopropyl)ether	0.5 U	0.5	2
2-Chloronaphthalene	0.4 U	0.4	1
4-Chlorophenyl-phenylether	0.5 U	0.5	2
Chrysene	0.1 U	0.1	0.5
Dibenz(a,h)anthracene	0.1 U	0.1	0.5
1,2-Dichlorobenzene	0.5 U	0.5	2
1,3-Dichlorobenzene	0.5 U	0.5	2
1,4-Dichlorobenzene	0.5 U	0.5	2
3,3'-Dichlorobenzidine	3 U	3	10
Diethylphthalate	2 U	2	5
Dimethylphthalate	2 U	2	5
2,4-Dinitrotoluene	1 U	1	5
2,6-Dinitrotoluene	0.5 U	0.5	2
1,2-Diphenylhydrazine	0.5 U	0.5	2
bis(2-Ethylhexyl)phthalate	5 U	5	11
Fluoranthene	0.1 U	0.1	0.5
Fluorene	0.1 U	0.1	0.5
Hexachlorobenzene	0.1 U	0.1	0.5
Hexachlorobutadiene	0.5 U	0.5	2
Hexachlorocyclopentadiene	5 U	5	11
Hexachloroethane	1 U	1	5
Indeno(1,2,3-cd)pyrene	0.1 U	0.1	0.5
Isophorone	0.5 U	0.5	2
Naphthalene	0.1 U	0.1	0.5
1-Naphthylamine	8 U	8	21
2-Naphthylamine	7 U	7	21
Nitrobenzene	0.5 U	0.5	2
N-Nitrosodimethylamine	2 U	2	5
N-Nitroso-di-n-propylamine	0.7 U	0.7	3
N-Nitrosodiphenylamine	0.7 U	0.7	3
Di-n-octylphthalate	5 U	5	11
Phenanthrene	0.1 U	0.1	0.5
Pyrene	0.1 U	0.1	0.5
o-Toluidine	4 U	4	10
1,2,4-Trichlorobenzene	0.5 U	0.5	2

Batch number: 18198WAC026

Sample number(s): 9705082-9705084,9705090,9705092,9705100

Acenaphthene 0.1 U 0.1 0.5

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

Method Blank (continued)

Analysis Name	Result ug/l	MDL** ug/l	LOQ ug/l
Acenaphthylene	0.1 U	0.1	0.5
Aniline	3 U	3	10
Anthracene	0.1 U	0.1	0.5
Benzidine	20 U	20	60
Benzo(a)anthracene	0.1 U	0.1	0.5
Benzo(a)pyrene	0.1 U	0.1	0.5
Benzo(b)fluoranthene	0.1 U	0.1	0.5
Benzo(g,h,i)perylene	0.1 U	0.1	0.5
Benzo(k)fluoranthene	0.1 U	0.1	0.5
4-Bromophenyl-phenylether	0.5 U	0.5	2
Butylbenzylphthalate	2 U	2	5
Di-n-butylphthalate	2 U	2	5
4-Chloro-3-methylphenol	0.5 U	0.5	2
4-Chloroaniline	4 U	4	10
bis(2-Chloroethoxy)methane	0.5 U	0.5	2
bis(2-Chloroethyl)ether	0.5 U	0.5	2
bis(2-Chloroisopropyl)ether	0.5 U	0.5	2
2-Chloronaphthalene	0.4 U	0.4	1
2-Chlorophenol	0.5 U	0.5	2
4-Chlorophenyl-phenylether	0.5 U	0.5	2
Chrysene	0.1 U	0.1	0.5
Dibenz(a,h)anthracene	0.1 U	0.1	0.5
1,2-Dichlorobenzene	0.5 U	0.5	2
1,3-Dichlorobenzene	0.5 U	0.5	2
1,4-Dichlorobenzene	0.5 U	0.5	2
3,3'-Dichlorobenzidine	3 U	3	10
2,4-Dichlorophenol	0.5 U	0.5	2
Diethylphthalate	2 U	2	5
2,4-Dimethylphenol	3 U	3	10
Dimethylphthalate	2 U	2	5
4,6-Dinitro-2-methylphenol	8 U	8	21
2,4-Dinitrophenol	14 U	14	30
2,4-Dinitrotoluene	1 U	1	5
2,6-Dinitrotoluene	0.5 U	0.5	2
1,2-Diphenylhydrazine	0.5 U	0.5	2
bis(2-Ethylhexyl)phthalate	5 U	5	11
Fluoranthene	0.1 U	0.1	0.5
Fluorene	0.1 U	0.1	0.5
Hexachlorobenzene	0.1 U	0.1	0.5
Hexachlorobutadiene	0.5 U	0.5	2
Hexachlorocyclopentadiene	5 U	5	11
Hexachloroethane	1 U	1	5
Indeno(1,2,3-cd)pyrene	0.1 U	0.1	0.5
Isophorone	0.5 U	0.5	2
Naphthalene	0.1 U	0.1	0.5

*- Outside of specification

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

Method Blank (continued)

Analysis Name	Result ug/l	MDL** ug/l	LOQ ug/l
1-Naphthylamine	8 U	8	21
2-Naphthylamine	7 U	7	21
Nitrobenzene	0.5 U	0.5	2
2-Nitrophenol	3 U	3	10
4-Nitrophenol	10 U	10	30
N-Nitrosodimethylamine	2 U	2	5
N-Nitroso-di-n-propylamine	0.7 U	0.7	3
N-Nitrosodiphenylamine	0.7 U	0.7	3
Di-n-octylphthalate	5 U	5	11
Pentachlorophenol	1 U	1	5
Phenanthrene	0.1 U	0.1	0.5
Phenol	0.5 U	0.5	2
Pyrene	0.1 U	0.1	0.5
o-Toluidine	4 U	4	10
1,2,4-Trichlorobenzene	0.5 U	0.5	2
2,4,6-Trichlorophenol	0.5 U	0.5	2
Batch number: 18200WAZ026	Sample number(s): 9705094		
Acenaphthene	0.1 U	0.1	0.5
Acenaphthylene	0.1 U	0.1	0.5
Aniline	3 U	3	10
Anthracene	0.1 U	0.1	0.5
Benzidine	20 U	20	60
Benzo(a)anthracene	0.1 U	0.1	0.5
Benzo(a)pyrene	0.1 U	0.1	0.5
Benzo(b)fluoranthene	0.1 U	0.1	0.5
Benzo(g,h,i)perylene	0.1 U	0.1	0.5
Benzo(k)fluoranthene	0.1 U	0.1	0.5
4-Bromophenyl-phenylether	0.5 U	0.5	2
Butylbenzylphthalate	2 U	2	5
Di-n-butylphthalate	2 U	2	5
4-Chloro-3-methylphenol	0.5 U	0.5	2
4-Chloroaniline	4 U	4	10
bis(2-Chloroethoxy)methane	0.5 U	0.5	2
bis(2-Chloroethyl)ether	0.5 U	0.5	2
bis(2-Chloroisopropyl)ether	0.5 U	0.5	2
2-Chloronaphthalene	0.4 U	0.4	1
2-Chlorophenol	0.5 U	0.5	2
4-Chlorophenyl-phenylether	0.5 U	0.5	2
Chrysene	0.1 U	0.1	0.5
Dibenz(a,h)anthracene	0.1 U	0.1	0.5
1,2-Dichlorobenzene	0.5 U	0.5	2
1,3-Dichlorobenzene	0.5 U	0.5	2
1,4-Dichlorobenzene	0.5 U	0.5	2
3,3'-Dichlorobenzidine	3 U	3	10

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Quality Control SummaryClient Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

Method Blank (continued)

Analysis Name	Result ug/l	MDL** ug/l	LOQ ug/l
2,4-Dichlorophenol	0.5 U	0.5	2
Diethylphthalate	2 U	2	5
2,4-Dimethylphenol	3 U	3	10
Dimethylphthalate	2 U	2	5
4,6-Dinitro-2-methylphenol	8 U	8	21
2,4-Dinitrophenol	14 U	14	30
2,4-Dinitrotoluene	1 U	1	5
2,6-Dinitrotoluene	0.5 U	0.5	2
1,2-Diphenylhydrazine	0.5 U	0.5	2
bis(2-Ethylhexyl)phthalate	5 U	5	11
Fluoranthene	0.1 U	0.1	0.5
Fluorene	0.1 U	0.1	0.5
Hexachlorobenzene	0.1 U	0.1	0.5
Hexachlorobutadiene	0.5 U	0.5	2
Hexachlorocyclopentadiene	5 U	5	11
Hexachloroethane	1 U	1	5
Indeno(1,2,3-cd)pyrene	0.1 U	0.1	0.5
Isophorone	0.5 U	0.5	2
Naphthalene	0.1 U	0.1	0.5
1-Naphthylamine	8 U	8	21
2-Naphthylamine	7 U	7	21
Nitrobenzene	0.5 U	0.5	2
2-Nitrophenol	3 U	3	10
4-Nitrophenol	10 U	10	30
N-Nitrosodimethylamine	2 U	2	5
N-Nitroso-di-n-propylamine	0.7 U	0.7	3
N-Nitrosodiphenylamine	0.7 U	0.7	3
Di-n-octylphthalate	5 U	5	11
Pentachlorophenol	1 U	1	5
Phenanthrene	0.1 U	0.1	0.5
Phenol	0.5 U	0.5	2
Pyrene	0.1 U	0.1	0.5
o-Toluidine	4 U	4	10
1,2,4-Trichlorobenzene	0.5 U	0.5	2
2,4,6-Trichlorophenol	0.5 U	0.5	2
	mg/l	mg/l	mg/l
Batch number: 181981404705A	Sample number(s): 9705091,9705093,9705095,9705097,9705099		
Lead	0.0011 U	0.0011	0.0060
Batch number: 181981404710A	Sample number(s): 9705082-9705085,9705090,9705092,9705094,9705096,9705098,9705100		
Antimony	0.00041 U	0.00041	0.0040
Arsenic	0.00068 U	0.00068	0.0040
Beryllium	0.000091 U	0.000091	0.0010
Cadmium	0.00015 U	0.00015	0.0020
Lead	0.0011 U	0.0011	0.0060

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

Method Blank (continued)

Analysis Name	Result mg/l	MDL** mg/l	LOQ mg/l
Batch number: 181991404702A Lead	Sample number(s): 9705086-9705089 0.0011 U	0.0011	0.0060
Batch number: 182001404503 Aluminum	Sample number(s): 9705090,9705094,9705098 0.153 U	0.153	0.600
Chromium	0.0053 U	0.0053	0.0300
Iron	0.0400 U	0.0400	0.400
Nickel	0.0031 U	0.0031	0.0200
Sodium	0.361 J	0.326	2.00
Batch number: 182001404504 Aluminum	Sample number(s): 9705082-9705085,9705092,9705096,9705100 0.153 U	0.153	0.600
Chromium	0.0053 U	0.0053	0.0300
Iron	0.0400 U	0.0400	0.400
Nickel	0.0031 U	0.0031	0.0200
Sodium	0.335 J	0.326	2.00
Batch number: 18201667605A Total Organic Carbon (Quad)	Sample number(s): 9705090,9705092,9705094,9705096,9705098,9705100 0.50 U	0.50	1.0
Batch number: 18201667605B Total Organic Carbon (Quad)	Sample number(s): 9705082-9705084 0.50 U	0.50	1.0

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: L182052AA Benzene	20	20.75	20	21.27	104	106	70-130	3	20
Bromodichloromethane	20	17.79	20	18	89	90	70-130	1	20
Bromoform	20	15.1	20	15.32	76	77	70-130	1	20
Bromomethane	20	16.17	20	16.5	81	82	60-140	2	20
Carbon Tetrachloride	20	16.33	20	16.07	82	80	70-130	2	20
Chlorobenzene	20	20.2	20	19.9	101	100	70-130	1	20
Chloroethane	20	16.69	20	17.27	83	86	60-140	3	20
Chloroform	20	19.82	20	20.98	99	105	70-130	6	20
Chloromethane	20	19.72	20	20.02	99	100	60-140	2	20
Dibromochloromethane	20	18.59	20	19.19	93	96	70-130	3	20
1,1-Dichloroethane	20	21.15	20	20.9	106	105	70-130	1	20
1,2-Dichloroethane	20	17.7	20	17.49	88	87	70-130	1	20
1,1-Dichloroethene	20	21.38	20	20.92	107	105	70-130	2	20
trans-1,2-Dichloroethylene	20	20.83	20	21.06	104	105	70-130	1	20

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
1,2-Dichloropropane	20	22.06	20	21.31	110	107	70-130	3	20
cis-1,3-Dichloropropene	20	19.81	20	19.3	99	97	70-130	3	20
trans-1,3-Dichloropropene	20	19.81	20	19.57	99	98	70-130	1	20
Ethylbenzene	20	21.78	20	21.05	109	105	70-130	3	20
Methylene Chloride	20	21.34	20	21.19	107	106	70-130	1	20
1,1,2,2-Tetrachloroethane	20	22.38	20	21.73	112	109	70-130	3	20
Tetrachloroethene	20	18.93	20	21.05	95	105	70-130	11	20
Toluene	20	21.91	20	21.48	110	107	70-130	2	20
1,1,1-Trichloroethane	20	16.54	20	16.88	83	84	70-130	2	20
1,1,2-Trichloroethane	20	20.72	20	22.06	104	110	70-130	6	20
Trichloroethene	20	19.66	20	19.49	98	97	70-130	1	20
Trichlorofluoromethane	20	16.19	20	16.85	81	84	60-140	4	20
Vinyl Chloride	20	17.5	20	17.81	88	89	70-130	2	20
Xylene (Total)	60	61.41	60	61.46	102	102	70-130	0	20
Batch number: 18197WAY026	Sample number(s): 9705096, 9705098								
Acenaphthene	50	43.41			87		70-130		
Acenaphthylene	50	42.23			84		70-130		
Aniline	50	15.23			30		20-160		
Anthracene	50	46.71			93		70-130		
Benzidine	250	37.63			15*		20-160		
Benzo(a)anthracene	50	42.91			86		70-130		
Benzo(a)pyrene	50	46.47			93		70-130		
Benzo(b)fluoranthene	50	44.9			90		70-130		
Benzo(g,h,i)perylene	50	41.5			83		70-130		
Benzo(k)fluoranthene	50	47.55			95		70-130		
4-Bromophenyl-phenylether	50	43.41			87		70-130		
Butylbenzylphthalate	50	39.47			79		70-130		
Di-n-butylphthalate	50	44.69			89		70-130		
4-Chloroaniline	50	23.78			48*		70-130		
bis(2-Chloroethoxy)methane	50	41.24			82		70-130		
bis(2-Chloroethyl)ether	50	40.61			81		70-130		
bis(2-Chloroisopropyl)ether	50	44.01			88		70-130		
2-Chloronaphthalene	50	38.53			77		70-130		
4-Chlorophenyl-phenylether	50	40.38			81		70-130		
Chrysene	50	43.37			87		70-130		
Dibenz(a,h)anthracene	50	40.3			81		70-130		
1,2-Dichlorobenzene	50	37.98			76		70-130		
1,3-Dichlorobenzene	50	36.16			72		70-130		
1,4-Dichlorobenzene	50	36.76			74		70-130		
3,3'-Dichlorobenzidine	50	33.23			66*		70-130		
Diethylphthalate	50	41.51			83		70-130		
Dimethylphthalate	50	36.38			73		70-130		

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	50	44.76			90		70-130		
2,6-Dinitrotoluene	50	46.14			92		70-130		
1,2-Diphenylhydrazine	50	47.38			95		70-130		
bis(2-Ethylhexyl)phthalate	50	41.36			83		70-130		
Fluoranthene	50	46.82			94		70-130		
Fluorene	50	42.95			86		70-130		
Hexachlorobenzene	50	42.87			86		70-130		
Hexachlorobutadiene	50	34.56			69*		70-130		
Hexachlorocyclopentadiene	100	50.85			51		20-160		
Hexachloroethane	50	34.53			69		20-160		
Indeno(1,2,3-cd)pyrene	50	39.98			80		70-130		
Isophorone	50	42.65			85		70-130		
Naphthalene	50	39.25			79		70-130		
1-Naphthylamine	100	42.15			42*		70-130		
2-Naphthylamine	100	39.85			40*		70-130		
Nitrobenzene	50	40.7			81		70-130		
N-Nitrosodimethylamine	50	25.05			50		20-160		
N-Nitroso-di-n-propylamine	50	44.68			89		70-130		
N-Nitrosodiphenylamine	50	45.25			91		70-130		
Di-n-octylphthalate	50	45.1			90		70-130		
Phenanthrene	50	45.68			91		70-130		
Pyrene	50	43.29			87		70-130		
o-Toluidine	50	17.42			35*		70-130		
1,2,4-Trichlorobenzene	50	38.56			77		70-130		
Batch number: 18198WAC026	Sample number(s): 9705082-9705084,9705090,9705092,9705100								
Acenaphthene	50	41.25			82		70-130		
Acenaphthylene	50	43.6			87		70-130		
Aniline	50	32.2			64		20-160		
Anthracene	50	42.11			84		70-130		
Benzidine	250	61.31			25		20-160		
Benzo(a)anthracene	50	46.69			93		70-130		
Benzo(a)pyrene	50	43.35			87		70-130		
Benzo(b)fluoranthene	50	43.02			86		70-130		
Benzo(g,h,i)perylene	50	38.48			77		70-130		
Benzo(k)fluoranthene	50	42.83			86		70-130		
4-Bromophenyl-phenylether	50	40.01			80		70-130		
Butylbenzylphthalate	50	42.17			84		70-130		
Di-n-butylphthalate	50	43.84			88		70-130		
4-Chloro-3-methylphenol	50	46.78			94		70-130		
4-Chloroaniline	50	36.77			74		70-130		
bis(2-Chloroethoxy)methane	50	41.8			84		70-130		
bis(2-Chloroethyl)ether	50	43.94			88		70-130		
bis(2-Chloroisopropyl)ether	50	32.98			66*		70-130		

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	50	41.05			82		70-130		
2-Chlorophenol	50	45.78			92		20-160		
4-Chlorophenyl-phenylether	50	39.19			78		70-130		
Chrysene	50	44.74			89		70-130		
Dibenz(a,h)anthracene	50	41.36			83		70-130		
1,2-Dichlorobenzene	50	33.77			68*		70-130		
1,3-Dichlorobenzene	50	35.58			71		70-130		
1,4-Dichlorobenzene	50	32.12			64*		70-130		
3,3'-Dichlorobenzidine	50	44.1			88		70-130		
2,4-Dichlorophenol	50	42.93			86		70-130		
Diethylphthalate	50	43.4			87		70-130		
2,4-Dimethylphenol	50	35.27			71		70-130		
Dimethylphthalate	50	46.24			92		70-130		
4,6-Dinitro-2-methylphenol	50	36.86			74		70-130		
2,4-Dinitrophenol	100	83.11			83		20-160		
2,4-Dinitrotoluene	50	43.91			88		70-130		
2,6-Dinitrotoluene	50	45.78			92		70-130		
1,2-Diphenylhydrazine	50	40.53			81		70-130		
bis(2-Ethylhexyl)phthalate	50	47.85			96		70-130		
Fluoranthene	50	42.57			85		70-130		
Fluorene	50	41.65			83		70-130		
Hexachlorobenzene	50	40.95			82		70-130		
Hexachlorobutadiene	50	31.79			64*		70-130		
Hexachlorocyclopentadiene	100	9.96			10*		20-160		
Hexachloroethane	50	31.08			62		20-160		
Indeno(1,2,3-cd)pyrene	50	40.15			80		70-130		
Isophorone	50	41.89			84		70-130		
Naphthalene	50	37.05			74		70-130		
1-Naphthylamine	100	53.78			54*		70-130		
2-Naphthylamine	100	48.05			48*		70-130		
Nitrobenzene	50	39.03			78		70-130		
2-Nitrophenol	50	44.42			89		70-130		
4-Nitrophenol	50	32.52			65		20-160		
N-Nitrosodimethylamine	50	27.3			55		20-160		
N-Nitroso-di-n-propylamine	50	45.47			91		70-130		
N-Nitrosodiphenylamine	50	38.27			77		70-130		
Di-n-octylphthalate	50	42.63			85		70-130		
Pentachlorophenol	50	46.79			94		20-160		
Phenanthrene	50	42.09			84		70-130		
Phenol	50	29.82			60		20-160		
Pyrene	50	42.87			86		70-130		
o-Toluidine	50	33.92			68*		70-130		
1,2,4-Trichlorobenzene	50	32.76			66*		70-130		
2,4,6-Trichlorophenol	50	51.99			104		70-130		

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 18200WAZ026		Sample number(s): 9705094							
Acenaphthene	50	46.9	50	46.73	94	93	70-130	0	20
Acenaphthylene	50	48.58	50	48.72	97	97	70-130	0	20
Aniline	50	29.82	50	28.15	60	56	20-160	6	20
Anthracene	50	48.59	50	46.89	97	94	70-130	4	20
Benzidine	250	3.78	250	5.76	2*	2*	20-160	42*	20
Benzo(a)anthracene	50	55.49	50	48.89	111	98	70-130	13	20
Benzo(a)pyrene	50	47.39	50	47.89	95	96	70-130	1	20
Benzo(b)fluoranthene	50	48.01	50	47.54	96	95	70-130	1	20
Benzo(g,h,i)perylene	50	43.16	50	42.6	86	85	70-130	1	20
Benzo(k)fluoranthene	50	46.53	50	48.23	93	96	70-130	4	20
4-Bromophenyl-phenylether	50	54.76	50	46.47	110	93	70-130	16	20
Butylbenzylphthalate	50	45.67	50	41.95	91	84	70-130	8	20
Di-n-butylphthalate	50	49.71	50	45.96	99	92	70-130	8	20
4-Chloro-3-methylphenol	50	48.41	50	53.2	97	106	70-130	9	20
4-Chloroaniline	50	35.07	50	31.45	70	63*	70-130	11	20
bis(2-Chloroethoxy)methane	50	43.88	50	47.1	88	94	70-130	7	20
bis(2-Chloroethyl)ether	50	40.93	50	42.68	82	85	70-130	4	20
bis(2-Chloroisopropyl)ether	50	31.23	50	32.13	62*	64*	70-130	3	20
2-Chloronaphthalene	50	41.66	50	42.42	83	85	70-130	2	20
2-Chlorophenol	50	42.04	50	43.33	84	87	20-160	3	20
4-Chlorophenyl-phenylether	50	44.28	50	44.33	89	89	70-130	0	20
Chrysene	50	54.06	50	47.59	108	95	70-130	13	20
Dibenz(a,h)anthracene	50	46.3	50	46.6	93	93	70-130	1	20
1,2-Dichlorobenzene	50	36.99	50	37.12	74	74	70-130	0	20
1,3-Dichlorobenzene	50	35.42	50	34.05	71	68*	70-130	4	20
1,4-Dichlorobenzene	50	36.02	50	34.6	72	69*	70-130	4	20
3,3'-Dichlorobenzidine	50	45.37	50	39.54	91	79	70-130	14	20
2,4-Dichlorophenol	50	44.45	50	43.9	89	88	70-130	1	20
Diethylphthalate	50	39.06	50	38.53	78	77	70-130	1	20
2,4-Dimethylphenol	50	37.73	50	40.21	75	80	70-130	6	20
Dimethylphthalate	50	30.31	50	28.3	61*	57*	70-130	7	20
4,6-Dinitro-2-methylphenol	50	55.38	50	46.32	111	93	70-130	18	20
2,4-Dinitrophenol	100	95.77	100	96.73	96	97	20-160	1	20
2,4-Dinitrotoluene	50	47.25	50	45.53	94	91	70-130	4	20
2,6-Dinitrotoluene	50	48.58	50	48.34	97	97	70-130	0	20
1,2-Diphenylhydrazine	50	58.94	50	50.53	118	101	70-130	15	20
bis(2-Ethylhexyl)phthalate	50	55.79	50	49.49	112	99	70-130	12	20
Fluoranthene	50	46.44	50	47.76	93	96	70-130	3	20
Fluorene	50	45.77	50	46.4	92	93	70-130	1	20
Hexachlorobenzene	50	55.33	50	47.01	111	94	70-130	16	20
Hexachlorobutadiene	50	35.79	50	30.91	72	62*	70-130	15	20
Hexachlorocyclopentadiene	100	35.37	100	27.02	35	27	20-160	27*	20

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachloroethane	50	36.13	50	31.37	72	63	20-160	14	20
Indeno(1,2,3-cd)pyrene	50	44.99	50	44.9	90	90	70-130	0	20
Isophorone	50	44	50	50.43	88	101	70-130	14	20
Naphthalene	50	40.86	50	40.52	82	81	70-130	1	20
1-Naphthylamine	100	49.48	100	39.49	49*	39*	70-130	22*	20
2-Naphthylamine	100	37.77	100	30.86	38*	31*	70-130	20	20
Nitrobenzene	50	38.88	50	47.17	78	94	70-130	19	20
2-Nitrophenol	50	45.25	50	49.83	90	100	70-130	10	20
4-Nitrophenol	50	33.53	50	35.09	67	70	20-160	5	20
N-Nitrosodimethylamine	50	25.93	50	30.49	52	61	20-160	16	20
N-Nitroso-di-n-propylamine	50	45.97	50	47.88	92	96	70-130	4	20
N-Nitrosodiphenylamine	50	56.15	50	48.24	112	96	70-130	15	20
Di-n-octylphthalate	50	49.37	50	50.49	99	101	70-130	2	20
Pentachlorophenol	50	50.36	50	51.7	101	103	20-160	3	20
Phenanthrene	50	49.31	50	47.94	99	96	70-130	3	20
Phenol	50	24.02	50	26.36	48	53	20-160	9	20
Pyrene	50	45.71	50	46.06	91	92	70-130	1	20
o-Toluidine	50	32.47	50	28.02	65*	56*	70-130	15	20
1,2,4-Trichlorobenzene	50	39.01	50	35.94	78	72	70-130	8	20
2,4,6-Trichlorophenol	50	47.5	50	47.05	95	94	70-130	1	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 181981404705A	Sample number(s): 9705091,9705093,9705095,9705097,9705099								
Lead	0.0150	0.0150			100		80-120		
Batch number: 181981404710A	Sample number(s): 9705082-9705085,9705090,9705092,9705094,9705096,9705098,9705100								
Antimony	0.00600	0.00693			115		80-120		
Arsenic	0.0100	0.0109			109		80-120		
Beryllium	0.00400	0.00437			109		80-120		
Cadmium	0.00500	0.00497			99		80-120		
Lead	0.0150	0.0147			98		80-120		
Batch number: 181991404702A	Sample number(s): 9705086-9705089								
Lead	0.0150	0.0159			106		80-120		
Batch number: 182001404503	Sample number(s): 9705090,9705094,9705098								
Aluminum	2.00	1.96			98		80-120		
Chromium	0.200	0.195			97		80-120		
Iron	1.00	1.02			102		80-120		
Nickel	0.500	0.506			101		80-120		
Sodium	10	10.67			107		80-120		
Batch number: 182001404504	Sample number(s): 9705082-9705085,9705092,9705096,9705100								
Aluminum	2.00	1.93			96		80-120		
Chromium	0.200	0.191			96		80-120		

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Iron	1.00	0.996			100		80-120		
Nickel	0.500	0.492			98		80-120		
Sodium	10	10.32			103		80-120		
mg/l									
Batch number: 18201667605A	Sample number(s): 9705090,9705092,9705094,9705096,9705098,9705100								
Total Organic Carbon (Quad)	25	24.98			100		91-113		
Batch number: 18201667605B	Sample number(s): 9705082-9705084								
Total Organic Carbon (Quad)	25	24.98			100		91-113		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max	
Batch number: L182052AA	Sample number(s): 9705082-9705084,9705090,9705092,9705094,9705096,9705098,9705100-9705101 UNSPK: 9705082										
Benzene	0.5	U	20	23.09	20	22.78	115	114	70-130	1	20
Bromodichloromethane	0.5	U	20	19.16	20	18.78	96	94	70-130	2	20
Bromoform	0.5	U	20	15.45	20	14.98	77	75	70-130	3	20
Bromomethane	0.5	U	20	17.95	20	17.64	90	88	60-140	2	20
Carbon Tetrachloride	0.5	U	20	18.36	20	18.46	92	92	70-130	1	20
Chlorobenzene	15.65	20	36.97	20	36.63	107	105	70-130	1	20	
Chloroethane	0.5	U	20	19.53	20	18.58	98	93	60-140	5	20
Chloroform	0.5	U	20	21.1	20	20.69	106	103	70-130	2	20
Chloromethane	0.5	U	20	20.46	20	20.67	102	103	60-140	1	20
Dibromochloromethane	0.5	U	20	18.56	20	17.46	93	87	70-130	6	20
1,1-Dichloroethane	0.5	U	20	23.89	20	22.86	119	114	70-130	4	20
1,2-Dichloroethane	0.5	U	20	18.31	20	18.26	92	91	70-130	0	20
1,1-Dichloroethene	0.5	U	20	24.22	20	24.41	121	122	70-130	1	20
trans-1,2-Dichloroethene	0.5	U	20	23.61	20	23.64	118	118	70-130	0	20
1,2-Dichloropropane	0.5	U	20	23.09	20	22.73	115	114	70-130	2	20
cis-1,3-Dichloropropene	0.5	U	20	20.2	20	20.24	101	101	70-130	0	20
trans-1,3-Dichloropropene	0.5	U	20	19.96	20	18.26	100	91	70-130	9	20
Ethylbenzene	0.5	U	20	22.69	20	20.9	113	104	70-130	8	20
Methylene Chloride	0.5	U	20	22.88	20	22.84	114	114	70-130	0	20
1,1,2,2-Tetrachloroethane	0.5	U	20	21.4	20	21.24	107	106	70-130	1	20
Tetrachloroethene	0.5	U	20	22.22	20	20.48	111	102	70-130	8	20
Toluene	0.5	U	20	23.28	20	21.18	116	106	70-130	9	20

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l	ug/l					
1,1,1-Trichloroethane	0.5 U	20	18.4	20	18.36	92	92	70-130	0	20
1,1,2-Trichloroethane	0.5 U	20	21.89	20	20.1	109	101	70-130	9	20
Trichloroethene	0.5 U	20	22.09	20	21.5	110	107	70-130	3	20
Trichlorofluoromethane	0.5 U	20	20.56	20	19.17	103	96	60-140	7	20
Vinyl Chloride	0.5 U	20	19.72	20	19.69	99	98	70-130	0	20
Xylene (Total)	0.5 U	60	69.6	60	60.84	116	101	70-130	13	20
Batch number: 18198WAC026	Sample number(s): 9705082-9705084,9705090,9705092,9705100 UNSPK: 9705082									
Acenaphthene	0.1 U	50.4	44.43	50.2	40.31	88	80	70-130	10	20
Acenaphthylene	0.1 U	50.4	46.92	50.2	43.99	93	88	70-130	6	20
Aniline	3 U	50.4	29.37	50.2	27.94	58	56	20-160	5	20
Anthracene	0.1 U	50.4	44.41	50.2	42.8	88	85	70-130	4	20
Benzidine	20 U	252.02	42.6	251	36.94	17*	15*	20-160	14	20
Benzo(a)anthracene	0.1 U	50.4	45.91	50.2	45.19	91	90	70-130	2	20
Benzo(a)pyrene	0.1 U	50.4	43.67	50.2	45.51	87	91	70-130	4	20
Benzo(b)fluoranthene	0.1 U	50.4	43.23	50.2	42.82	86	85	70-130	1	20
Benzo(g,h,i)perylene	0.1 U	50.4	38.47	50.2	36.61	76	73	70-130	5	20
Benzo(k)fluoranthene	0.1 U	50.4	42.68	50.2	42.63	85	85	70-130	0	20
4-Bromophenyl-phenylether	0.5 U	50.4	42.52	50.2	39.54	84	79	70-130	7	20
Butylbenzylphthalate	2 U	50.4	46.61	50.2	48.77	92	97	70-130	5	20
Di-n-butylphthalate	2 U	50.4	47.83	50.2	41.81	95	83	70-130	13	20
4-Chloro-3-methylphenol	0.5 U	50.4	48.44	50.2	46.36	96	92	70-130	4	20
4-Chloroaniline	4 U	50.4	35.61	50.2	31.5	71	63*	70-130	12	20
bis(2-Chloroethoxy)methane	0.5 U	50.4	43.02	50.2	39.56	85	79	70-130	8	20
bis(2-Chloroethyl)ether	0.5 U	50.4	41.43	50.2	38.26	82	76	70-130	8	20
bis(2-Chloroisopropyl)ether	0.5 U	50.4	33.97	50.2	31.74	67*	63*	70-130	7	20
2-Chloronaphthalene	0.4 U	50.4	40.82	50.2	36.16	81	72	70-130	12	20
2-Chlorophenol	0.5 U	50.4	42.78	50.2	40.73	85	81	20-160	5	20
4-Chlorophenyl-phenylether	0.5 U	50.4	41.59	50.2	37.17	83	74	70-130	11	20
Chrysene	0.1 U	50.4	44.07	50.2	43.44	87	87	70-130	1	20
Dibenz(a,h)anthracene	0.1 U	50.4	42.08	50.2	41.52	83	83	70-130	1	20
1,2-Dichlorobenzene	1.06	50.4	37.08	50.2	34.71	71	67*	70-130	7	20
1,3-Dichlorobenzene	0.820	50.4	35.17	50.2	32.47	68*	63*	70-130	8	20
1,4-Dichlorobenzene	4.26	50.4	39.21	50.2	35.66	69*	63*	70-130	9	20
3,3'-Dichlorobenzidine	3 U	50.4	41.34	50.2	38.03	82	76	70-130	8	20
2,4-Dichlorophenol	0.5 U	50.4	44.14	50.2	41.14	88	82	70-130	7	20
Diethylphthalate	2 U	50.4	43.03	50.2	39.52	85	79	70-130	9	20
2,4-Dimethylphenol	3 U	50.4	38.32	50.2	35.58	76	71	70-130	7	20
Dimethylphthalate	2 U	50.4	44.63	50.2	40.46	89	81	70-130	10	20
4,6-Dinitro-2-methylphenol	8 U	50.4	45.59	50.2	44.64	90	89	70-130	2	20
2,4-Dinitrophenol	14 U	100.81	70.31	100.4	73.1	70	73	20-160	4	20
2,4-Dinitrotoluene	1 U	50.4	44.23	50.2	42.6	88	85	70-130	4	20

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	0.5 U	50.4	47.36	50.2	44.16	94	88	70-130	7	20
1,2-Diphenylhydrazine	0.5 U	50.4	49.37	50.2	44.45	98	89	70-130	10	20
bis(2-Ethylhexyl)phthalate	5 U	50.4	46.39	50.2	45.4	92	90	70-130	2	20
Fluoranthene	0.1 U	50.4	45.42	50.2	41.12	90	82	70-130	10	20
Fluorene	0.1 U	50.4	44.13	50.2	40.42	88	81	70-130	9	20
Hexachlorobenzene	0.1 U	50.4	43.16	50.2	41.4	86	82	70-130	4	20
Hexachlorobutadiene	0.5 U	50.4	34.51	50.2	31.52	68*	63*	70-130	9	20
Hexachlorocyclopentadiene	5 U	100.81	57.16	100.4	48.01	57	48	20-160	17	20
Hexachloroethane	1 U	50.4	34.18	50.2	31.12	68	62	20-160	9	20
Indeno(1,2,3-cd)pyrene	0.1 U	50.4	40.39	50.2	40.15	80	80	70-130	1	20
Isophorone	0.5 U	50.4	46.56	50.2	42.04	92	84	70-130	10	20
Naphthalene	0.1 U	50.4	38.83	50.2	35.48	77	71	70-130	9	20
1-Naphthylamine	8 U	100.81	48.04	100.4	42.29	48*	42*	70-130	13	20
2-Naphthylamine	7 U	100.81	44.2	100.4	36.79	44*	37*	70-130	18	20
Nitrobenzene	0.5 U	50.4	45.13	50.2	40.36	90	80	70-130	11	20
2-Nitrophenol	3 U	50.4	47.54	50.2	44.63	94	89	70-130	6	20
4-Nitrophenol	10 U	50.4	40.9	50.2	33.88	81	67	20-160	19	20
N-Nitrosodimethylamine	2 U	50.4	29.49	50.2	27.45	59	55	20-160	7	20
N-Nitroso-di-n-propylamine	0.7 U	50.4	46.33	50.2	42.48	92	85	70-130	9	20
N-Nitrosodiphenylamine	0.7 U	50.4	44.91	50.2	43.98	89	88	70-130	2	20
Di-n-octylphthalate	5 U	50.4	45.21	50.2	43.23	90	86	70-130	4	20
Pentachlorophenol	1 U	50.4	51.15	50.2	51.83	101	103	20-160	1	20
Phenanthrene	0.1 U	50.4	44.88	50.2	43.88	89	87	70-130	2	20
Phenol	0.5 U	50.4	28.35	50.2	27.05	56	54	20-160	5	20
Pyrene	0.1 U	50.4	43.16	50.2	41.83	86	83	70-130	3	20
o-Toluidine	4 U	50.4	30.85	50.2	28.63	61*	57*	70-130	7	20
1,2,4-Trichlorobenzene	0.5 U	50.4	37.35	50.2	33.88	74	67*	70-130	10	20
2,4,6-Trichlorophenol	0.5 U	50.4	48.46	50.2	43.31	96	86	70-130	11	20

mg/l mg/l mg/l mg/l mg/l

Batch number: 181981404710A Sample number(s): 9705082-9705085,9705090,9705092,9705094,9705096,9705098,9705100 UNSPK: 9705082

Antimony	0.00041 U	0.00600	0.00666	0.00600	0.00653	111	109	75-125	2	20
Arsenic	0.0256	0.0100	0.0397	0.0100	0.0261	140*	5*	75-125	41*	20
Beryllium	0.000091 U	0.00400	0.00432	0.00400	0.00437	108	109	75-125	1	20

Cadmium	0.00015 U	0.00500	0.00524	0.00500	0.00537	105	107	75-125	2	20
Lead	0.0011 U	0.0150	0.0152	0.0150	0.0145	102	97	75-125	5	20

Batch number: 181991404702A	Sample number(s): 9705086-9705089 UNSPK: 9705086
Lead	0.0011 U 0.0150 0.0143 0.0150 0.0148 95 99 75-125 4 20

Batch number: 182001404504 Sample number(s): 9705082-9705085,9705090,9705092,9705094,9705096,9705100 UNSPK: 9705082

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Aluminum	0.153 U	2.00	1.96	2.00	1.99	98	100	75-125	2	20
Chromium	0.0053 U	0.200	0.187	0.200	0.193	93	96	75-125	3	20
Iron	118.73	1.00	124.78	1.00	40.42	605 (2)	-7831 (2)	75-125	102*	20
Nickel	0.0031 U	0.500	0.476	0.500	0.489	95	98	75-125	3	20
Sodium	183.03	10	188.28	10	191.14	53 (2)	81 (2)	75-125	2	20
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 18201667605B	Sample number(s): 9705082-9705084 UNSPK: 9705082									
Total Organic Carbon (Quad)	9.77	10	19.42	10	18.89	96	91	91-113	3	20

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 181981404710A	Sample number(s): 9705082-9705085,9705090,9705092,9705094,9705096,9705098,9705100 BKG: 9705082			
Antimony	0.00041 U	0.00041 U	0 (1)	20
Arsenic	0.0256	0.0255	1	20
Beryllium	0.000091 U	0.000091 U	0 (1)	20
Cadmium	0.00015 U	0.00015 U	0 (1)	20
Lead	0.0011 U	0.0011 U	0 (1)	20
Batch number: 181991404702A	Sample number(s): 9705086-9705089 BKG: 9705086			
Lead	0.0011 U	0.0011 U	0 (1)	20
Batch number: 182001404504	Sample number(s): 9705082-9705085,9705092,9705096,9705100 BKG: 9705082			
Aluminum	0.153 U	0.153 U	0 (1)	20
Chromium	0.0053 U	0.0053 U	0 (1)	20
Iron	118.73	113.25	5	20
Nickel	0.0031 U	0.0031 U	0 (1)	20
Sodium	183.03	181.46	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PPL Volatiles + Add'l Cmpds

Batch number: L182052AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9705082	89	101	104	96
9705083	94	100	109	100
9705084	94	101	96	93
9705090	93	98	104	100
9705092	92	101	95	95
9705094	93	100	92	92
9705096	94	97	100	98
9705098	94	101	100	99
9705100	94	99	102	107
9705101	94	100	102	106
Blank	93	100	101	104
LCS	94	96	104	101
LCSD	96	98	102	99
MS	94	100	109	100
MSD	94	101	96	93

Limits: 70-130 70-130 70-130 70-130

Analysis Name: PPL BNs + Add'l Cmpds

Batch number: 18197WAY026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9705096	76	74	66
9705098	68	65	69
Blank	75	73	88
LCS	76	74	83

Limits: 30-130 30-130 30-130

Analysis Name: PPL SVs + Add'l Cmpds

Batch number: 18198WAC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9705082	39	56	93	82	73	43
9705083	49	61	91	85	77	67
9705084	48	58	94	77	68	77
9705090	30	40	99	67	70	81
9705092	47	54	78	73	61	54
9705100	36	52	94	87	81	92
Blank	37	51	95	76	78	96
LCS	53	59	93	75	83	86
MS	49	61	91	85	77	67
MSD	48	58	94	77	68	77

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/10/2018 13:27

Group Number: 1966072

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PPL SVs + Add'l Cmpds
Batch number: 18198WAC026

Limits: 15-110 15-110 15-110 30-130 30-130 30-130

Analysis Name: PPL SVs + Add'l Cmpds
Batch number: 18200WAZ026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9705094	35	46	83	76	67	90
Blank	27	40	79	70	58	92
LCS	41	58	97	75	84	101
LCSD	46	63	94	91	85	94

Limits: 15-110 15-110 15-110 30-130 30-130 30-130

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



Lancaster
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Analysis Request / Environmental Services Chain of Custody

1 of 1

For Eurofins Lancaster Laboratories Use Only

Group No.: 1966072 Sample Nos.: 9705082-101

Acc't: 07032 SF: 68148 SCR No.: 227828 Cooler No.: 1.6 °C Container No.: 1

38924

Facility Name: Chambers Works		Project Manager: Tom McGee				Analyses Required												Comments:		
Facility Contact: Tom McGee		Facility Contact Phone No.: 856-540-2402																		
Facility Address: Chemours Chambers Works Plant		Job No.: 77201000-WH06507141																		
Rt 130 & Canal Road		Release No.:																		
Deepwater NJ 08023		PO Number: LBIO-67047																		
Sampler(s): <u>J Gomes/A Treglia</u>																				
Project Name: PERIMETER MONITORING 2018																				
Sample Identification	Date Collected	Time Collected	Matrix	Containers			PPL Volatiles + xylenes, TCFM (8260)	DKQP												
				Volume (ml)	Preserv	No.		Condition upon receipt: <u>In a Cf</u>												
PMP2018-D06-M01B	7/16/18	1038	WW	40	HCl	3	X													
PMP2018-D06-M01B	/	/	WW	40	HCl	3	X													MS
PMP2018-D06-M01B		↓	WW	40	HCl	3	X													MSD
PMP2018-F06-M02B		0937	WW	40	HCl	3	X													
PMP2018-G05-M02B			WW	40	HCl	3	X													
PMP2018-G05-M02B-D			WW	40	HCl	3	X													
PMP2018-C07-M01B		1305	WW	40	HCl	3	X													
PMP2018-C08-M01B		1206	WW	40	HCl	3	X													
PMP2018-EB-5		0000	WW	40	HCl	3	X													
PMP2018-TB-5	✓	↓	WW	40	HCl	2	X													
Turnaround Time Requested (please circle): <input checked="" type="radio"/> Standard <input type="radio"/> RUSH Number of days: <u>8</u>							Special Instructions:													
Bottles Relinquished by: <u>J. Gomes</u>	Date: <u>7/16/18</u>	Time: <u>1500</u>	Bottles Received by:									Date:	Time:							
Bottles Relinquished by:	Date	Time	Bottles Received by:									Date:	Time:							
Bottles Relinquished by:	Date	Time	Bottles Received by:									Date:	Time:							
Bottles Relinquished by:	Date	Time	Bottles Received by:									<u>Tom</u>	<u>7/16/18</u>							



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Analysis Request / Environmental Services Chain of Custody

1 of 1

For Eurofins Lancaster Laboratories Use Only

Group No.: 1966072 Sample Nos.: 9703082-101

Acc't: 07032 SF: 68148 SCR No.: 227828

Cooler No.: _____

Cooler Temperature upon receipt: 0.6 °C Container No.: 2

38918

Facility Name: Chambers Works		Project Manager: Tom McGee				Analyses Required						Comments:
Facility Contact: Tom McGee		Facility Contact Phone No.: 856-540-2402										Metals = Al, Cr, Fe, Ni, Na (6010); Sb, As, Be, Cd, Pb (6020)
Facility Address: Chemours Chambers Works Plant		Job No.: 77201000-WH06507141										SVs = PPL SVs + aniline, o-toluidine, 4-chloroaniline and 1- & 2-naphthylamine
Rt 130 & Canal Road		Release No.:										
Deepwater NJ 08023		PO Number: LBIO-67047										
Sampler(s): <u>J. Jones/A. Treglia</u>												
Project Name: PERIMETER MONITORING 2018												
Sample Identification	Date Collected	Time Collected	Matrix	Containers			GC/MS Semivolatiles (8270)	Metals	Pb (6020)	TOC (9060)	1,4-Dioxane (8270 SIM)	DKQP
				Volume (ml)	Preserv	No.						
PMP2018-D06-M01B	7-16-18	1038	WW	250	HNO3	1	X					Intact
PMP2018-D06-M01B			WW	250	None	4	X			X		
PMP2018-D06-M01B			WW	40	H3PO4	5				X		
PMP2018-D06-M01B-Z			WW	250	HNO3	1		X				
PMP2018-D06-M01B			WW	250	HNO3	1		X				MS
PMP2018-D06-M01B			WW	250	None	4	X			X		MS
PMP2018-D06-M01B			WW	40	H3PO4	5			X			MS
PMP2018-D06-M01B-Z			WW	250	HNO3	1		X				MS
Turnaround Time Requested (please circle): <input checked="" type="radio"/> Standard <input type="radio"/> RUSH Number of days: <u>8</u>				Special Instructions:								
Bottles Relinquished by: <u>J. Jones</u>	Date <u>7/16/18</u>	Time <u>1500</u>	Bottles Received by: _____						Date: _____	Time: _____		
Bottles Relinquished by: _____	Date _____	Time _____	Bottles Received by: _____						Date: _____	Time: _____		
Bottles Relinquished by: _____	Date _____	Time _____	Bottles Received by: _____						Date: _____	Time: _____		
Bottles Relinquished by: _____	Date _____	Time _____	Bottles Received by: _____						Date: <u>7/16/18</u>	Time: <u>1750</u>		

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Eurofins Lancaster Laboratories Use Only

Group No.: 1966072 Sample Nos.: 9705082-101

Acc't: 07032 SF: 68148 SCR No.: 227828

Cooler No.: 38919

Cooler Temperature upon receipt: 1.1 °C Container No.: 3

Facility Name: Chambers Works		Project Manager: Tom McGee			Analyses Required						Comments:		
Facility Contact: Tom McGee		Facility Contact Phone No.: 856-540-2402									Metals = Al, Cr, Fe, Ni, Na (6010); Sb, As, Be, Cd, Pb (6020)		
Facility Address: Chemours Chambers Works Plant		Job No.: 77201000-WH06507141									SVs = PPL SVs + aniline, o-toluidine, 4-chloroaniline and 1- & 2-naphthylamine		
Rt 130 & Canal Road		Release No.:											
Deepwater NJ 08023		PO Number: LBIO-67047											
Sampler(s): <u>J. Gomes/A. Treglia</u>													
Project Name: PERIMETER MONITORING 2018													
Sample Identification	Date Collected	Time Collected	Matrix	Containers			GC/MS Semivolatiles (8270)	Metals	Pb (6020)	TOC (9060)	1,4-Dioxane (8270 SIM)	DKQP	
				Volume (ml)	Preserv	No.						Condition upon receipt:	
PMP2018-D06-M01B	<u>7/16/18</u>	<u>1038</u>	WW	250	HNO3	1	X						MSD
PMP2018-D06-M01B			WW	250	None	4	X			X			MSD
PMP2018-D06-M01B			WW	40	H3PO4	5			X				MSD
PMP2018-D06-M01B-Z		<u>↓</u>	WW	250	HNO3	1		X					MSD
PMP2018-F06-M02B		<u>0937</u>	WW	250	HNO3	1		X					
PMP2018-F06-M02B			WW	250	None	4	X			X			
PMP2018-F06-M02B			WW	40	H3PO4	5			X				
PMP2018-F06-M02B-Z	<u>↓</u>	<u>↓</u>	WW	250	HNO3	1		X					
Turnaround Time Requested (please circle): <input checked="" type="radio"/> Standard <input type="radio"/> RUSH		Number of days: <u>8</u>			Special Instructions:								
Bottles Relinquished by:		Date <u>7/16</u>	Time <u>1500</u>	Bottles Received by:						Date:	Time:		
Bottles Relinquished by:		Date	Time	Bottles Received by:						Date:	Time:		
Bottles Relinquished by:		Date	Time	Bottles Received by:						Date:	Time:		
Bottles Relinquished by:		Date	Time	Bottles Received by:						Date: <u>7/16/18</u>	Time: <u>1750</u>		

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Eurofins Lancaster Laboratories Use Only

Group No.: 1966072 Sample Nos.: 9705082-101

Acc't: 07032 SF: 68148 SCR No.: 227828

Cooler No.: 38920

Cooler Temperature upon receipt: 1, 0 °C Container No.: 4

Facility Name: Chambers Works		Project Manager: Tom McGee				Analyses Required						Comments:										
Facility Contact: Tom McGee		Facility Contact Phone No.: 856-540-2402				GC/MS Semivolatiles (8270) Metals Pb (6020) TOC (9060) 1,4-Dioxane (8270 SIM)									Metals = Al, Cr, Fe, Ni, Na (6010); Sb, As, Be, Cd, Pb (6020) SVs = PPL SVs + aniline, o-toluidine, 4-chloroaniline and 1- & 2-naphthylamine							
Facility Address: Chemours Chambers Works Plant		Job No.: 77201000-WH06507141																				
Rt 130 & Canal Road		Release No.:																				
Deepwater NJ 08023		PO Number: LBIO-67047																				
Sampler(s): <i>TG/AT</i>																						
Project Name: PERIMETER MONITORING 2018																						
Sample Identification	Date Collected	Time Collected	Matrix	Containers												DKQP						
				Volume (ml)	Preserv											No.	Metals	Pb (6020)	TOC (9060)	1,4-Dioxane (8270 SIM)
PMP2018-G05-M02B	<i>7/16</i>	<i>1355</i>	WW	250	HNO3	1	X															
PMP2018-G05-M02B			WW	250	None	4	X			X												
PMP2018-G05-M02B			WW	40	H3PO4	5			X													
PMP2018-G05-M02B-Z			WW	250	HNO3	1		X														
PMP2018-G05-M02B-D			WW	250	HNO3	1		X														
PMP2018-G05-M02B-D			WW	250	None	4	X			X												
PMP2018-G05-M02B-D			WW	40	H3PO4	5			X													
PMP2018-G05-M02B-DZ			WW	250	HNO3	1		X														
<i>[Handwritten signatures and initials over the grid]</i>																						
Turnaround Time Requested (please circle): <input checked="" type="radio"/> Standard <input type="radio"/> RUSH Number of days: 8				Special Instructions:																		
Bottles Relinquished by: <i>[Signature]</i>	Date <i>7/16</i>	Time <i>1500</i>	Bottles Received by: <i>[Signature]</i>							Date: <i> </i>	Time: <i> </i>											
Bottles Relinquished by: <i>[Signature]</i>	Date <i> </i>	Time <i> </i>	Bottles Received by: <i>[Signature]</i>							Date: <i> </i>	Time: <i> </i>											
Bottles Relinquished by: <i>[Signature]</i>	Date <i> </i>	Time <i> </i>	Bottles Received by: <i>[Signature]</i>							Date: <i> </i>	Time: <i> </i>											
Bottles Relinquished by: <i>[Signature]</i>	Date <i> </i>	Time <i> </i>	Bottles Received by: <i>[Signature]</i>							Date: <i> </i>	Time: <i> </i>											



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Analysis Request / Environmental Services Chain of Custody

1 of 1

For Eurofins Lancaster Laboratories Use Only

Group No.: 1966072 Sample Nos.: 4705082-10

Acc't: 07032 SF: 68148 SCR No.: 227828 Cooler No.: **38922**
Cooler Temperature upon receipt: **12** °C Container No.: **5**

Facility Name: Chambers Works	Project Manager: Tom McGee					Analyses Required							Comments:							
Facility Contact: Tom McGee	Facility Contact Phone No.: 856-540-2402					GC/MS Semivolatiles (8270)	Metals	Pb (6020)	TOC (9060)	14-Dioxane (8270 SIM)									Metals = Al, Cr, Fe, Ni, Na (6010); Sb, As, Be, Cd, Pb (6020)	
Facility Address: Chemours Chambers Works Plant	Job No.: 77201000-WH06507141																			
Rt 130 & Canal Road	Release No.:																			
Deepwater NJ 08023	PO Number: LBIO-67047																			
Sampler(s): <i>J. Jones/A. Treglia</i>																				
Project Name: PERIMETER MONITORING 2018															GC/MS SVs = PPL BNs + aniline, o-toluidine, 1- & 2-naphthylamine and 4-chloroaniline					
Sample Identification		Date Collected	Time Collected	Matrix	Containers			DKQP												
					Volume (ml)	Preserv	No.	X										Condition upon receipt: <i>In tact</i>		
PMP2018-C07-M01B		<i>7/16/18</i>	<i>1305</i>	WW	250	HNO3	1													
PMP2018-C07-M01B		<i> </i>	<i>1305</i>	WW	250	None	4	X				X								
PMP2018-C07-M01B		<i> </i>	<i>↓</i>	WW	40	H3PO4	5				X									
PMP2018-C07-M01B-Z		<i> </i>	<i>↓</i>	WW	250	HNO3	1			X										
PMP2018-C08-M01B		<i> </i>	<i>1206</i>	WW	250	HNO3	1		X											
PMP2018-C08-M01B		<i> </i>	<i> </i>	WW	250	None	4	X			X									
PMP2018-C08-M01B		<i> </i>	<i> </i>	WW	40	H3PO4	5				X									
PMP2018-C08-M01B-Z		<i> </i>	<i>↓</i>	WW	250	HNO3	1			X										
Turnaround Time Requested (please circle): <input checked="" type="radio"/> Standard <input type="radio"/> RUSH Number of days: <u>8</u>															Special Instructions:					
Bottles Relinquished by: <i>J. Jones</i>	Date: <i>7/16/18</i>	Time: <i>1500</i>	Bottles Received by:											Date:	Time:					
Bottles Relinquished by: <i> </i>	Date: <i> </i>	Time: <i> </i>	Bottles Received by:											Date:	Time:					
Bottles Relinquished by: <i> </i>	Date: <i> </i>	Time: <i> </i>	Bottles Received by:											Date:	Time:					
Bottles Relinquished by: <i> </i>	Date: <i> </i>	Time: <i> </i>	Bottles Received by:											Date:	Time:					



Lancaster
Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Eurofins Lancaster Laboratories Use Only

Group No.: 1966072 Sample Nos.: 9705082-101

Acc't: 07032 SF: 68148 SCR No.: 227828

Cooler No.: _____

38923

Cooler Temperature upon receipt: 16 °C Container No.: _____

Facility Name: Chambers Works		Project Manager: Tom McGee				Analyses Required						Comments:				
Facility Contact: Tom McGee		Facility Contact Phone No.: 856-540-2402										Metals = Al, Cr, Fe, Ni, Na (6010); Sb, As, Be, Cd, Pb (6020)				
Facility Address: Chemours Chambers Works Plant		Job No.: 77201000-WH06507141										SVs = PPL SVs + aniline, o-toluidine, 4-chloroaniline and 1- & 2-naphthylamine				
Rt 130 & Canal Road		Release No.:										DKQP				
Deepwater NJ 08023		PO Number: LBIO-67047										Condition upon receipt: <i>In tact</i>				
Sampler(s): <u>J. Jones/A. Treglia</u>		Project Name: PERIMETER MONITORING 2018														
Sample Identification	Date Collected	Time Collected	Matrix	Containers			GC/MS Semivolatiles (8270)	Metals	TOC (9060)	1,4-Dioxane (8270 SIM)						
				Volume (ml)	Preserv	No.										
PMP2018-EB-5	<u>7/16/18</u>	<u>0800</u>	WW	250	HNO3	1	X									
PMP2018-EB-5			WW	250	None	4	X		X							
PMP2018-EB-5	<u>✓</u>	<u>✓</u>	WW	40	H ₃ PO ₄	5		X								
Turnaround Time Requested (please circle):	<input checked="" type="radio"/> Standard	RUSH	Number of days:	8										Special Instructions:		
Bottles Relinquished by:	<u>Jenelle Jones</u>	Date <u>7/16/18</u>	Time <u>1500</u>	Bottles Received by:										Date:	Time:	
Bottles Relinquished by:		Date	Time	Bottles Received by:										Date:	Time:	
Bottles Relinquished by:		Date	Time	Bottles Received by:										Date:	Time:	
Bottles Relinquished by:		Date	Time	Bottles Received by:										<u>Dawn</u>	Date: <u>7-16-18</u> Time: <u>1750</u>	

Sample Administration
Receipt Documentation Log

Doc Log ID: 221681



Group Number(s):

1966072

Client: Chambers Works

Delivery and Receipt Information

Delivery Method: ELLE Courier Arrival Timestamp: 07/16/2018 17:50
 Number of Packages: 5 Number of Projects: 3
 State/Province of Origin: NJ

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Cory Jeremiah (10469) at 20:07 on 07/16/2018

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT42-01	1.6	DT	Wet	Y	Loose/Bag	N
2	DT42-01	0.6	DT	Wet	Y	Loose/Bag	N
3	DT42-01	1.1	DT	Wet	Y	Loose/Bag	N
4	DT42-01	1.0	DT	Wet	Y	Loose/Bag	N
5	DT42-01	1.2	DT	Wet	Y	Loose/Bag	N

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Edison

777 New Durham Road

Edison, NJ 08817

Tel: (732)549-3900

TestAmerica Job ID: 460-161954-1

Client Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

For:

Eurofins Lancaster Laboratories Env LLC

2425 New Holland Pike

Lancaster, Pennsylvania 17601

Attn: Ms. Kerri Sachtleben

Maria Luisa M. Cruz

Authorized for release by:

8/9/2018 9:33:57 AM

Maria Luisa Cruz, Project Manager II

(732)549-3900

luisa.cruz@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page. This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Page 8 of 100
Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Eurofins Lancaster Laboratories Env LLC
Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

TestAmerica Job ID: 460-161954-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Eurofins Lancaster Laboratories Env LLC
Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

TestAmerica Job ID: 460-161954-1

Job ID: 460-161954-1

Laboratory: TestAmerica Edison

Narrative

CASE NARRATIVE

Client: Eurofins Lancaster Laboratories Env LLC

Project: 9705082-84, 90, 92, 94, 96, 98, 100

Report Number: 460-161954-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 8/2/2018 2:18 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

SEMOVOLATILE ORGANIC COMPOUNDS (GC/MS) DKQP

Samples PMP2018-D06-M01B (460-161954-1), PMP2018-F06-M02B (460-161954-2), PMP2018-G05-M02B (460-161954-3), PMP2018-G05-M02B-D (460-161954-4), PMP-2018-C07-M01B (460-161954-5), PMP-2018-C08-M01B (460-161954-6) and PMP2018-EB-5 (460-161954-7) were analyzed for Semivolatile organic compounds (GC/MS) DKQP in accordance with EPA SW-846 Method 8270D SIM. The samples were prepared on 08/06/2018 and analyzed on 08/06/2018 and 08/07/2018.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: Eurofins Lancaster Laboratories Env LLC
Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

TestAmerica Job ID: 460-161954-1

Client Sample ID: PMP2018-D06-M01B	Lab Sample ID: 460-161954-1	1
<input type="checkbox"/> No Detections.		2
Client Sample ID: PMP2018-F06-M02B	Lab Sample ID: 460-161954-2	3
<input type="checkbox"/> No Detections.		4
Client Sample ID: PMP2018-G05-M02B	Lab Sample ID: 460-161954-3	5
<input type="checkbox"/> No Detections.		6
Client Sample ID: PMP2018-G05-M02B-D	Lab Sample ID: 460-161954-4	7
<input type="checkbox"/> No Detections.		8
Client Sample ID: PMP-2018-C07-M01B	Lab Sample ID: 460-161954-5	9
<input type="checkbox"/> No Detections.		10
Client Sample ID: PMP-2018-C08-M01B	Lab Sample ID: 460-161954-6	11
<input type="checkbox"/> No Detections.		12
Client Sample ID: PMP2018-EB-5	Lab Sample ID: 460-161954-7	13
<input type="checkbox"/> No Detections.		14
		15

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Client Sample Results

Client: Eurofins Lancaster Laboratories Env LLC
 Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

TestAmerica Job ID: 460-161954-1

Client Sample ID: PMP2018-D06-M01B

Date Collected: 07/16/18 10:38

Date Received: 08/02/18 14:18

Lab Sample ID: 460-161954-1

Matrix: Water

Method: 8270D SIM - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.17	U H	0.40	0.17	ug/L	D	08/06/18 09:15	08/06/18 23:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	87		30 - 130				08/06/18 09:15	08/06/18 23:22	1

Client Sample ID: PMP2018-F06-M02B

Date Collected: 07/16/18 09:37

Date Received: 08/02/18 14:18

Lab Sample ID: 460-161954-2

Matrix: Water

Method: 8270D SIM - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.17	U H	0.40	0.17	ug/L	D	08/06/18 09:15	08/07/18 03:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	60		30 - 130				08/06/18 09:15	08/07/18 03:33	1

Client Sample ID: PMP2018-G05-M02B

Date Collected: 07/16/18 13:55

Date Received: 08/02/18 14:18

Lab Sample ID: 460-161954-3

Matrix: Water

Method: 8270D SIM - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.17	U H	0.40	0.17	ug/L	D	08/06/18 09:15	08/07/18 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	85		30 - 130				08/06/18 09:15	08/07/18 12:48	1

Client Sample ID: PMP2018-G05-M02B-D

Date Collected: 07/16/18 13:55

Date Received: 08/02/18 14:18

Lab Sample ID: 460-161954-4

Matrix: Water

Method: 8270D SIM - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.17	U H	0.40	0.17	ug/L	D	08/06/18 09:15	08/07/18 13:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	96		30 - 130				08/06/18 09:15	08/07/18 13:10	1

Client Sample ID: PMP-2018-C07-M01B

Date Collected: 07/16/18 13:05

Date Received: 08/02/18 14:18

Lab Sample ID: 460-161954-5

Matrix: Water

Method: 8270D SIM - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.17	U H	0.40	0.17	ug/L	D	08/06/18 09:15	08/07/18 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	94		30 - 130				08/06/18 09:15	08/07/18 13:31	1

TestAmerica Edison

Client Sample Results

Client: Eurofins Lancaster Laboratories Env LLC
Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

TestAmerica Job ID: 460-161954-1

Client Sample ID: PMP-2018-C08-M01B

Lab Sample ID: 460-161954-6

Matrix: Water

Date Collected: 07/16/18 12:06

Date Received: 08/02/18 14:18

Method: 8270D SIM - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.17	U H	0.40	0.17	ug/L	D	08/06/18 09:15	08/07/18 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	92		30 - 130				08/06/18 09:15	08/07/18 13:52	1

Client Sample ID: PMP2018-EB-5

Lab Sample ID: 460-161954-7

Matrix: Water

Date Collected: 07/16/18 08:00

Date Received: 08/02/18 14:18

Method: 8270D SIM - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.17	U H	0.40	0.17	ug/L	D	08/06/18 09:15	08/07/18 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	97		30 - 130				08/06/18 09:15	08/07/18 14:13	1

Surrogate Summary

Client: Eurofins Lancaster Laboratories Env LLC
Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

TestAmerica Job ID: 460-161954-1

Method: 8270D SIM - 1,4-Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ (30-130)
460-161954-1	PMP2018-D06-M01B	87
460-161954-1 MS	PMP2018-D06-M01B MS	98
460-161954-1 MSD	PMP2018-D06-M01B MSD	100
460-161954-2	PMP2018-F06-M02B	60
460-161954-3	PMP2018-G05-M02B	85
460-161954-4	PMP2018-G05-M02B-D	96
460-161954-5	PMP-2018-C07-M01B	94
460-161954-6	PMP-2018-C08-M01B	92
460-161954-7	PMP2018-EB-5	97
LCS 460-542475/2-A	Lab Control Sample	91
MB 460-542475/1-A	Method Blank	91

Surrogate Legend

NBZ = Nitrobenzene-d5

QC Sample Results

Client: Eurofins Lancaster Laboratories Env LLC
Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

TestAmerica Job ID: 460-161954-1

Method: 8270D SIM - 1,4-Dioxane (GC/MS SIM)

Lab Sample ID: MB 460-542475/1-A

Matrix: Water

Analysis Batch: 542562

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 542475

Analyte	MB		RL	MDL	Unit	D	Prepared		Dil Fac
	Result	Qualifier					Prepared	Analyzed	
1,4-Dioxane	0.17	U	0.40	0.17	ug/L	D	08/06/18 09:15	08/06/18 22:40	1

Surrogate	MB		Limits	Prepared		Dil Fac
	%Recovery	Qualifier		Prepared	Analyzed	
Nitrobenzene-d5	91		30 - 130	08/06/18 09:15	08/06/18 22:40	1

Lab Sample ID: LCS 460-542475/2-A

Matrix: Water

Analysis Batch: 542562

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 542475

Analyte	Spike		LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier	Unit	ug/L	D	%Rec.	Limits
1,4-Dioxane		0.800		0.603		D	75	20 - 160

Surrogate	LCS		Limits	Prepared		Dil Fac
	%Recovery	Qualifier		Prepared	Analyzed	
Nitrobenzene-d5	91		30 - 130	08/06/18 09:15	08/06/18 22:40	1

Lab Sample ID: 460-161954-1 MS

Matrix: Water

Analysis Batch: 542562

Client Sample ID: PMP2018-D06-M01B MS

Prep Type: Total/NA

Prep Batch: 542475

Analyte	Sample		Spike	MS		Unit	D	%Rec.	Limits
	Result	Qualifier		Result	Qualifier				
1,4-Dioxane	0.17	U H	0.800	0.200	J H	ug/L	D	25	20 - 160

Surrogate	MS		Limits	Prepared		Dil Fac
	%Recovery	Qualifier		Prepared	Analyzed	
Nitrobenzene-d5	98		30 - 130	08/06/18 09:15	08/06/18 22:40	1

Lab Sample ID: 460-161954-1 MSD

Matrix: Water

Analysis Batch: 542562

Client Sample ID: PMP2018-D06-M01B MSD

Prep Type: Total/NA

Prep Batch: 542475

Analyte	Sample		Spike	MSD		Unit	D	%Rec.	RPD
	Result	Qualifier		Result	Qualifier				
1,4-Dioxane	0.17	U H	0.800	0.218	J H	ug/L	D	27	20 - 160

Surrogate	MSD		Limits	Prepared		Dil Fac
	%Recovery	Qualifier		Prepared	Analyzed	
Nitrobenzene-d5	100		30 - 130	08/06/18 09:15	08/06/18 22:40	1

QC Association Summary

Client: Eurofins Lancaster Laboratories Env LLC
 Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

TestAmerica Job ID: 460-161954-1

GC/MS Semi VOA

Prep Batch: 542475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-161954-1	PMP2018-D06-M01B	Total/NA	Water	3510C	5
460-161954-2	PMP2018-F06-M02B	Total/NA	Water	3510C	6
460-161954-3	PMP2018-G05-M02B	Total/NA	Water	3510C	7
460-161954-4	PMP2018-G05-M02B-D	Total/NA	Water	3510C	8
460-161954-5	PMP-2018-C07-M01B	Total/NA	Water	3510C	9
460-161954-6	PMP-2018-C08-M01B	Total/NA	Water	3510C	10
460-161954-7	PMP2018-EB-5	Total/NA	Water	3510C	
MB 460-542475/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-542475/2-A	Lab Control Sample	Total/NA	Water	3510C	
460-161954-1 MS	PMP2018-D06-M01B MS	Total/NA	Water	3510C	
460-161954-1 MSD	PMP2018-D06-M01B MSD	Total/NA	Water	3510C	

Analysis Batch: 542562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-161954-1	PMP2018-D06-M01B	Total/NA	Water	8270D SIM	542475
460-161954-2	PMP2018-F06-M02B	Total/NA	Water	8270D SIM	542475
MB 460-542475/1-A	Method Blank	Total/NA	Water	8270D SIM	542475
LCS 460-542475/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	542475
460-161954-1 MS	PMP2018-D06-M01B MS	Total/NA	Water	8270D SIM	542475
460-161954-1 MSD	PMP2018-D06-M01B MSD	Total/NA	Water	8270D SIM	542475

Analysis Batch: 542789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-161954-3	PMP2018-G05-M02B	Total/NA	Water	8270D SIM	542475
460-161954-4	PMP2018-G05-M02B-D	Total/NA	Water	8270D SIM	542475
460-161954-5	PMP-2018-C07-M01B	Total/NA	Water	8270D SIM	542475
460-161954-6	PMP-2018-C08-M01B	Total/NA	Water	8270D SIM	542475
460-161954-7	PMP2018-EB-5	Total/NA	Water	8270D SIM	542475

Lab Chronicle

Client: Eurofins Lancaster Laboratories Env LLC
Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

TestAmerica Job ID: 460-161954-1

Client Sample ID: PMP2018-D06-M01B

Date Collected: 07/16/18 10:38

Date Received: 08/02/18 14:18

Lab Sample ID: 460-161954-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			542475	08/06/18 09:15	ANM	TAL EDI
Total/NA	Analysis	8270D SIM		1	542562	08/06/18 23:22	SK	TAL EDI

Client Sample ID: PMP2018-F06-M02B

Date Collected: 07/16/18 09:37

Date Received: 08/02/18 14:18

Lab Sample ID: 460-161954-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			542475	08/06/18 09:15	ANM	TAL EDI
Total/NA	Analysis	8270D SIM		1	542562	08/07/18 03:33	SK	TAL EDI

Client Sample ID: PMP2018-G05-M02B

Date Collected: 07/16/18 13:55

Date Received: 08/02/18 14:18

Lab Sample ID: 460-161954-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			542475	08/06/18 09:15	ANM	TAL EDI
Total/NA	Analysis	8270D SIM		1	542789	08/07/18 12:48	SK	TAL EDI

Client Sample ID: PMP2018-G05-M02B-D

Date Collected: 07/16/18 13:55

Date Received: 08/02/18 14:18

Lab Sample ID: 460-161954-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			542475	08/06/18 09:15	ANM	TAL EDI
Total/NA	Analysis	8270D SIM		1	542789	08/07/18 13:10	SK	TAL EDI

Client Sample ID: PMP-2018-C07-M01B

Date Collected: 07/16/18 13:05

Date Received: 08/02/18 14:18

Lab Sample ID: 460-161954-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			542475	08/06/18 09:15	ANM	TAL EDI
Total/NA	Analysis	8270D SIM		1	542789	08/07/18 13:31	SK	TAL EDI

Client Sample ID: PMP-2018-C08-M01B

Date Collected: 07/16/18 12:06

Date Received: 08/02/18 14:18

Lab Sample ID: 460-161954-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			542475	08/06/18 09:15	ANM	TAL EDI
Total/NA	Analysis	8270D SIM		1	542789	08/07/18 13:52	SK	TAL EDI

TestAmerica Edison

Lab Chronicle

Client: Eurofins Lancaster Laboratories Env LLC
Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

TestAmerica Job ID: 460-161954-1

Client Sample ID: PMP2018-EB-5

Date Collected: 07/16/18 08:00

Date Received: 08/02/18 14:18

Lab Sample ID: 460-161954-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			542475	08/06/18 09:15	ANM	TAL EDI
Total/NA	Analysis	8270D SIM		1	542789	08/07/18 14:13	SK	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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TestAmerica Edison

Accreditation/Certification Summary

Client: Eurofins Lancaster Laboratories Env LLC
Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

TestAmerica Job ID: 460-161954-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

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TestAmerica Edison

Method Summary

Client: Eurofins Lancaster Laboratories Env LLC
Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

TestAmerica Job ID: 460-161954-1

Method	Method Description	Protocol	Laboratory
8270D SIM	1,4-Dioxane (GC/MS SIM)	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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TestAmerica Edison

Sample Summary

Client: Eurofins Lancaster Laboratories Env LLC
Project/Site: 9705082-84, 90, 92, 94, 96, 98, 100

TestAmerica Job ID: 460-161954-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-161954-1	PMP2018-D06-M01B	Water	07/16/18 10:38	08/02/18 14:18
460-161954-2	PMP2018-F06-M02B	Water	07/16/18 09:37	08/02/18 14:18
460-161954-3	PMP2018-G05-M02B	Water	07/16/18 13:55	08/02/18 14:18
460-161954-4	PMP2018-G05-M02B-D	Water	07/16/18 13:55	08/02/18 14:18
460-161954-5	PMP-2018-C07-M01B	Water	07/16/18 13:05	08/02/18 14:18
460-161954-6	PMP-2018-C08-M01B	Water	07/16/18 12:06	08/02/18 14:18
460-161954-7	PMP2018-EB-5	Water	07/16/18 08:00	08/02/18 14:18

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TestAmerica Edison

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Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # _____ Group # 1966072 Sample # 9105082-84, 90, 92, 94, 96, 98, 100

16/954

8/9/2018

Subcontractor: TA Edison		Matrix		Analyses Requested		For Lab Use Only					
Project Name/#: CWK - PERIMETER MONITORING 2018				Preservation and Filtration Codes		SF #: _____					
Requestor	Madeline Ratcliff	P.O. #:	NA	PWSID #:		SCR #:					
Sampler:	JG	Quote #:				Preservation Codes					
Phone #:	717-656-2300 Ext 1189					H = HCl	T = Thiosulfate				
State where samples were collected: NJ		For Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				I = HNO ₃	B = NaOH				
						P = H ₂ SO ₄	F = Field Filtered				
						O = Other					
Sample Identification		Collection		Total # of Containers		Remarks					
i	PMP2018-D06-M01B	Date	Time	Grab	Composite	Soil <input type="checkbox"/>	Sediment <input type="checkbox"/>	Tissue <input type="checkbox"/>	Water	Other:	1,4 Dioxane by 8270D SIM
i	PMP2018-D06-M01B MS	7/16/2018	10:38	X		1	X				460-161954 Chain of Custody
i	PMP2018-F06-M01B MSD	7/16/2018	10:38		X	1	X				9705082
2	PMP2018-G05-M02B	7/16/2018	9:37	X		1	X				9705083
3	PMP2018-G05-M02B	7/16/2018	13:55	X		1	X				9705084
4	PMP2018-G05-M02B-D	7/16/2018	13:55	X		1	X				9705090
5	PMP2018-C07-M01B	7/16/2018	13:05	X		1	X				9705092
6	PMP2018-C08-M01B	7/16/2018	12:06	X		1	X				9705094
7	PMP2018-EB-5	7/16/2018	8:00		X	1	X				9705096
											9705098
											9705100
DKQP											
Turnaround Time Requested (TAT) (please check):		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Received by: John Burns		Date 8/2/18	Time 14:18				
(Rush TAT is subject to laboratory approval and surcharges.)											
Date results are needed:		Relinquished by: John Burns		Date 8/2/18	Time 14:18	Received by: John Burns		Date 8/2/18	Time 14:18		
Rush results requested by (please check):		E-Mail <input type="checkbox"/>	Phone <input type="checkbox"/>	Received by:		Received by:		Received by:			
E-mail Address:		ENVsubcontracting@EurofinsUS.com		Received by:		Received by:		Received by:			
Phone:		717-656-2300 Ext 1189		Received by:		Received by:		Received by:			
Data Package Options (please check if required)		Relinquished by:		Date	Time	Received by:	Date	Time			
Type I (Validation/non-CLP) <input type="checkbox"/>		MA MCP <input type="checkbox"/>									
Type III (Reduced non-CLP) <input type="checkbox"/>		CT RCP <input type="checkbox"/>									
Type VI (Raw Data Only) <input type="checkbox"/>		TX TRRP-13 <input type="checkbox"/>									
NJ DKQP <input checked="" type="checkbox"/>		NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B									
EDD Required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		If yes, format: DuPont EIM_12		Relinquished by Commercial Carrier		Temperature upon receipt	1.8°C				
		UPS	FedEx	Other			°C				

Job Number:

TestAmerica Edison Receipt Temperature and pH Log

Page _____ of _____

1959-1

Number of Coolers

RGS*

Cooler Temperatures

Number of Coolers	IR Gim #		Cooler Temperatures		Number of Coolers	
	RAW	CORRECTED	RAW	CORRECTED		
Cooler #1:	11 °C	12 °C	Cooler #4:	12 °C	Cooler #7:	11 °C
Cooler #2:	12 °C	13 °C	Cooler #5:	13 °C	Cooler #8:	12 °C
Cooler #3:	13 °C	14 °C	Cooler #6:	14 °C	Cooler #9:	13 °C

Sample No(s). adjusted:

Preservative Name/Conc.: _____

Volume of Preservative used (ml):

Lot # of preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted. Samples for Metal analysis which are out of compliance must be adjudged at least 24 hours prior to analysis.

EDS-WI-038, Rev 4, 06/09/2014

Initials:

Date:

Date: 8/2/18

Login Sample Receipt Checklist

Client: Eurofins Lancaster Laboratories Env LLC

Job Number: 460-161954-1

Login Number: 161954

List Source: TestAmerica Edison

List Number: 1

Creator: Jara, Kelly D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mL	milliliter(s)
C	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	µg	microgram(s)
lb.	pound(s)	µL	microliter(s)
m3	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents		
mg	milligram(s)	MCL	Maximum Contamination Limit
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report
R	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.

Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.